



TRABAJOS PRÁCTICOS 2024

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APELLIDO Y NOMBRE:

LEGAJO:

CARRERA:

TRABAJO PRÁCTICO N° 1

- **Frase Nominal:** El sustantivo, plurales, sustitutos del sustantivo, pre y posmodificación.

Salt content dependent dielectric properties of pistachios relevant to radio-frequency pasteurization.

A. Traduzca las siguientes frases nominales. Todas son títulos de trabajos de investigación.

1. Free vibration analysis of thin plates: Bare versus Stiffened
Bhargav Reddy Isanaka, M Abdul Akbar, Biraja Prasad Mishra and Vinod Kushvaha
2. Numerical study on flexural performance of RC beam with various confinement patterns
Talapa Reddy Suman Kumar and I Yamini Sreevalli
3. Advances in Self-Healing Material Technology
4. Versatile high power pulse-laser source for pico- and nanosecond optical pulses
Armin Liero, Andreas Klehr, Andrea Knigge and Wolfgang Heinrich
5. Supply chains of high-value low-volume products
R.T. Sousa, N. Shah, L.G. Papageorgiou
6. Power Global Electric Vehicle Expansion
Peter Weiss, Guy B. Marin, Kevin M. Van Geem
7. A non-contact swing-arm profilometer with the spectrally-resolved-interferometry distance sensor
Quan Zheng, Lei Chen and Zhigang Han
8. Material Mechanical Properties Necessary for the Structural Intervention of Concrete Structures
Tamon Ueda
9. Multiscale Homogenization Analysis of Alkali-Silica Reaction (ASR) Effect in Concrete
Roozbeh Reza khani, Mohammed Alnaggar, Gianluca Cusatis

❖ EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL (Frases nominales)

EL PLURAL DE LOS SUSTANTIVOS EN INGLÉS

Algunos sustantivos tienen dos formas de plural cuyos significados son, a veces, diferentes.

SINGULAR	PLURAL
index	indices (algebraico)
	indexes (alfabético)
appendix	appendices (órgano)
	appendixes (en un libro)
focus	foci
	focuses

SINGULAR	PLURAL
medium	media
	mediums
mouse	mice (animal)
	mouses (de la computadora)
formula	formulae (matemáticas)
	formulas

Algunos sustantivos presentan la misma forma para el singular y para el plural.

News, sheep, aircraft, deer, salmon, species, Japanese, series, apparatus.

A Chinese The Chinese

B. Escriba el singular de los siguientes sustantivos y traduzca.

1. properties			8. radii		
2. gates			9. businessmen		
3. indices			10. analyses		
4. strata			11. women		
5. formulae			12. industries		
6. searches			13. halves		
7. bubbles			14. energies		

C. Indique a qué hacen referencia las palabras destacadas en las oraciones.

DIRAC NOTATION

The physical state of a system is represented in quantum mechanics by elements of a Hilbert space; **these** elements are called state vectors. We can represent the state vector in different bases by means of function expansions. **This** is analogous to specifying an ordinary (Euclidean) vector by **its** components in various coordinate systems. For instance, we can represent equivalently a vector by **its** components in a Cartesian coordinate system, in a spherical coordinate system, or in a cylindrical coordinate system. *The meaning of a vector is, of course, independent of the coordinate system chosen to represent **its** components.* Similarly, the state of a microscopic system has a meaning independent of the basis in **which** **it** is expanded.

To free state vectors from coordinate meaning, Dirac introduced an invaluable notation in quantum mechanics; **He** introduced the concepts of kets, bras and bra-kets. Kets are elements of a vector space, bras are elements of a dual space while a bra-ket is the direct notation for the scalar product.

Note: When a ket (or bras) is multiplied by a complex number, **we** also get a ket

1.	These	
2.	This	
3.	Its (line 4)	
4.	Its (line 5)	del vector
5.	Its (line 8)	
6.	Which	
7.	It	
8.	He	
9.	We	

**❖ EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL
(Sustitutos del sustantivo)**

APELLIDO Y NOMBRE:

LEGAJO:

CARRERA:

TRABAJO PRÁCTICO N° 2

- **Frase Nominal compleja:** “to infinitive”, forma-ing, forma –ed, cognados y falsos cognados, derivados, compuestos y cambio de función.

A. Traduzca las siguientes frases nominales complejas. Todas son títulos de trabajos de investigación.

1. Compliant bipolar electrostatic gripper using 3D-printed-layered elastic probes
Pasomphone Hemthavy, Kenta Kudo, Kento Kawano, Kunio Takahashi and Shigeki Saito
2. Evaluating experimentally and numerically different scarf-repair methodologies of composite structures
S. Psarras | T. Loutas | G. Galanopoulos | G. Karamadoukis | G. Sotiriadis | V. Kostopoulos
3. Optimal Antibody Purification Strategies Using Data-Driven Models
Songsong Liu, Lazaros G. Papageorgiou
4. Opportunities and Challenges of Artificial Intelligence for Green Manufacturing in the Process Industry
Shuai Mao, Bing Wang, Yang Tang, Feng Qian
5. Research and Implementations of Structural Monitoring for Bridges and Buildings in Japan
Yozo Fujino, Dionysius M. Siringoringo, Yoshiki Ikeda, Tomonori Nagayama, Tsukasa Mizutani
6. Treating UHMWPE surface for enhancing the adhesion properties by cellulose grafting
Tarek Dayyoub | Aleksey V. Maksimkin | Fedor S. Senatov | Sergey D. Kaloshkin | Anna Zimina | Evgeniy A. Kolesnikov
7. Interfacial adhesion in glass-fiber thermoplastic composites processed from acrylic reactive system: a multi-scale experimental analysis
Q. Charlier | F. Lortie | J.-F. Gérard
8. Significance of Modules with Ascending Chain Condition Which Corresponds of Definite Sorts of Annihilator
Rehana Parvin, Momotz Katun, Rashida Pervin.

❖ EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL (Frases nominales complejas)

B. Traduzca las siguientes oraciones que contienen frases nominales complejas.

1. Anarko's Ketchum Mountain field is a Clearfork formation marine turbidite sandstone reservoir.

2. Personnel overlooking the robotic weld cell then need to stop production to address rework or scrap the part.
3. The major change in the interpretation of the C sandstone correlation on the later cross section occurs in the producer Well B.
4. The wind turbine internal cabin transmission system and the layout of sensors are showed in Fig. 1.

C. En la siguiente lista indique qué palabras son cognados (C) y cuáles falsos cognados (FC), o ninguno de los dos (-) y escriba el significado de todas las palabras de la lista.

1. weight ( )	.....	6. space ( )	.....	11. diversion ( )	.....
2. library ( )	.....	7. analysis ( )	.....	12. debris ( )	.....
3. enhance ( )	.....	8. exit ( )	.....	13. system ( )	.....
4. attend ( )	.....	9. facility ( )	.....	14. remove ( )	.....
5. equation ( )	.....	10. reflect ( )	.....	15. actually ( )	.....

D. Significados sugeridos por los afijos

Ordene las siguientes palabras debajo de los títulos según indiquen superioridad, inferioridad, negación, anticipación o repetición.

Superioridad	Inferioridad	Negación	Anticipación	Repetición

Palabras: degas overestimate underline displace premature non negotiable redirect unintentional supernatural inaccurate microgrip independent forecast discomfort dimensionless

E. Funciones de palabras con afijos.

Ordene las siguientes palabras según su función:

Palabras: enable detector greatly partnership harmful computer predictable seamlessly international heavy thickness economics interact recycler overexposure analytical encapsulate length seismic compliment wireless

Verbo	Sustantivo	Adjetivo	Adverbio

F. Lea el siguientes texto

ON-LINE LEAK SEALING & MECHANICAL REPAIR

Leaks can cost industries millions of dollars in lost energy, while increasing emissions, creating safety hazards, and lowering the reliability of operations. Valves and piping systems can fail in a number of ways. The most commonly experienced failures, or threatened failures, are associated with either internal or external corrosion of the pipe wall. Other failures are often caused by erosion, fretting or gouging.

Shutting down to repair leaks means a loss in production. TEAM's leak sealing services allow repairs to be made without interruption to normal operations. All methods are non-destructive, helping preserve the integrity and useful life of the equipment.

Our team is uniquely qualified to assist with your repairs, as we invented the process of on-line leak sealing, and have spent nearly 100 years perfecting it. We've handled just about every imaginable leak-sealing application. Our in-house engineering and manufacturing capabilities further enhanced our offerings. We use the latest 3D CAD, calculation and engineering analysis software, with major engineering centers across the globe. Our engineers can, and often do, design wholly bespoke solutions to unusual problems.

TEAM can help your company:

- Prevent expensive shutdowns by providing safe, controlled on site and on stream leak repairs for any component or process
- Help preserve the integrity and useful life of the equipment
- Save time and product
- Minimize environmental impact
- Reduce administrative burden

• Traduzca el primer y Segundo párrafos

• Responda las siguientes preguntas

1. ¿Qué ventaja tiene TEAM como inventores de este sistema?
2. ¿Qué actuación destacada tiene el personal?
3. ¿Qué ventajas tecnológicas tiene la empresa y por qué es tan importante?
4. ¿Cómo evita TEAM un cierre oneroso de su empresa?
5. ¿Qué otras ventajas económicas y ecológicas ofrece la empresa TEAM?

II. FUNCIONES DE –ING E INFINITIVO CON TO

A. Traduzca las siguientes oraciones.

1. The previous analysis confirms that the rolling bearing faults are developing
2. To analyse the failure mechanism of structures is generally essential.
3. Welding these metals effectively is impossible with the contact process of resistance welding.
4. Owing to the ever-changing weather conditions, the rotational speed could not always reach 1080 RPM, to ensure a consistent monitoring, the collection dates may be varied accordingly and we have to accept this reality.
5. Ventilation can also be used for temperature control by bringing outside air into a building.
6. In 1995 the Congress removed all funding for OTA, thus ending its existence. (OTA Office of Technology Assessment)
7. But we need your ongoing support to keep working as we do.
8. The ability to weld dissimilar metals creates a variety of efficiency advantages for EV batteries.
9. Thank you for choosing to join us on this journey, which we believe is about to take off shortly.
10. The connectors would have to work and be easy to detach as the batteries would be swappable.

B. Lea el siguiente texto

Infranomics - Sustainability, Engineering Design and Governance

Abstract:

We define Infranomics as a body of discipline supporting analysis and decision making regarding modern societal vexing issues of sustainability, asset management, energy and safety, ethics, education, and engineering design. While it is in its infancy, Infranomics is proposed as a thesis enabling better decision making in an increasing ambiguous, complex, emergent, interdependent, and uncertain world. As modern society contends with rapid technological changes, socioeconomic institutional changes, increased globalization, and scarcity of resources, decision makers (i.e., policymakers and private entity operators, and researchers) are faced with a daunting task of ensuring the well-being of public health, security, and economy. Since no nation has unlimited resources, the time is ripe for a discipline that supports analysis and decision making to increase anticipation in an increasingly uncertain world. In the 25 works contributing to this book, we illuminate Infranomics in different aspects of modern society. The paper by Gheorghe et al., serves as the introduction to this volume. It addresses the interdisciplinary format of Infranomics, highlighting some potential initial areas of applications, and the category of analytical instruments adequately empowered to deal with the complex domain of the new body of discipline.

C. Responda en forma breve las siguientes preguntas sobre el texto

1. ¿Dónde se podría encontrar este tipo de texto?
2. ¿Cuál es el objetivo de la infranómica?
3. ¿Qué cambios globales hacen que se desarrolle esta disciplina?
4. ¿Cuál es la consecuencia de la limitación en los recursos de las naciones?
5. ¿A qué sujetos está orientada o es útil esta disciplina?
6. ¿Por qué se considera que es interdisciplinaria?

APELLIDO Y NOMBRE:

LEGAJO:

CARRERA:

TRABAJO PRÁCTICO N° 3

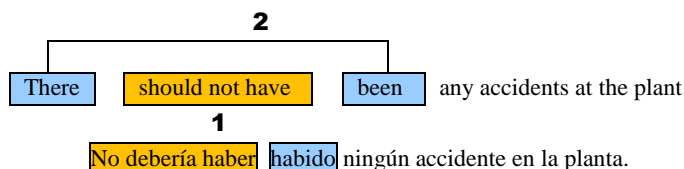
- **Tiempos verbales:** tiempos verbales simples, continuos y perfectos, futuro perifrástico *going to*, modales simples, continuos y perfectos, imperativo, voz activa y pasiva común.

I. VOZ ACTIVA

A. Lea y traduzca las siguientes oraciones y sus variantes

1. They were not wearing flame resistant clothing
 had worn
 are going to wear
 may have worn
 should wear
2. A welder can choose parameters and start welding with an optimized program.
 chose
 will have to choose
 is to choose
 has been choosing
3. The environmental risks include degradation of soils and pollution of surface water with heavy metals.
 are able to include
 have to include
 wouldn't include
 were including
4. Technology must play an important role to achieve quantum reductions in waste generation.
 is playing
 didn't play
 could play
 has played
5. There have not been reports of silica related disease in the oil and gas workforce.
 might have been
 were going to be
 had been
 are to be

La expresión **THERE + BE** significa **HABER**, es una expresión impersonal y, a pesar de que en inglés tiene un singular y un plural, como todas las expresiones impersonales en español se traduce **SÓLO** en singular *ha habido* y no ~~han habido~~. La traducción en los tiempos simples no presenta mayores dificultades, pero cuando se combinan con modales en tiempos perfectos, la traducción suele complicarse, por lo que sugerimos comenzar a traducir los verbos que están entre *there* y *be* primero y luego el verbo *haber* en la forma que exija la traducción anterior.



B. Traduzca las siguientes oraciones.

1. There has to be a critical mass (coalition) of leaders aligned and attuned to the vision.
2. There is about to be a direct conflict in some well test cases.
3. There are going to be occasional unexpected and often uncontrollable delays.

C. Traduzca las siguientes oraciones con BE TO.

1. If the partition is to serve as an acoustical separation, the lower edge of the wallboard at the floor line should be sealed.
2. The only solution may be to mix the samples.
3. The water and sediment in the oil are to be determined by the centrifuge method.
4. In fact, those needs were to bring employees and their contribution closer to the business needs.
5. A compromise strategy may be to design a more complex system
6. If multiple diodes are to be used, diode array can be used.
7. Parts were to be tracked through each and every shop floor operation.
8. A central computer will display which items are to be picked (via the light) and how many (on the display)

❖ EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL (Expresión There + be)

D. Lea y traduzca el siguiente código de seguridad.

Let's make our workplace safe.

- Wear personal protective equipment for the job.
- Always use equipment / tools / machinery safely and properly.
- Lift properly using your legs. Don't use your back.
- Keep your work area clean.
- Wear appropriate and safe clothes and footwear. Don't use loose clothes or loose jewelry.
- Report any unsafe conditions.
- Clean up spills immediately.
- Report all injuries
- Don't work under the influence of drugs or alcohol.

Be responsible for yourself and your workmates. Let's avoid accidents.

II. VOZ PASIVA

A. Traduzca todas las variantes de la oración

1. The pipes and the outlet manifold material are made from stainless steel.
2. are to be made
3. would be made
4. have been made
5. won't be made
6. might not be made
7. are about to be made

8. had been made
9. are going to be made
10. will have been made
11. had to be made.

B. Identifique la frase verbal en voz pasiva. Traduzca las oraciones

1. This special type of sampling has been used for more than 60 years, mainly for sampling gas/condensate production.
2. DEA's laboratory and core storage facility will be relocated to Barnstorf.
3. A building should be constructed to serve purposes specified by the client.
4. This might be called material eco-efficiency.

C. Traduzcan el segmento de texto correspondiente a cada grupo.

Arquitectura y Civil	<p>Science News <i>from research organizations</i></p> <p>Graphene-based wearables for health monitoring, food inspection and night vision</p> <p><i>Date:</i> February 15, 2019 <i>Source:</i> Graphene Flagship <i>Summary:</i> Scientists have developed dozens of new graphene-based prototypes. These technologies aim to turn mobile phones into life saving devices.</p> <hr/> <p>ICFO's fitness band is being developed to measure heart rate, hydration, oxygen saturation, breathing rate and temperature.</p> <hr/> <p>The first of ICFO's devices on display will allow customers to monitor their level of exposure to sunlight through a UV sensor. Designed as a flexible, transparent and disposable patch, it connects to a mobile device and alerts the user once he or she has reached a defined threshold of sun exposure.</p> <p>Using the same core technology as the UV patch, ICFO's fitness band is being developed to measure heart rate, hydration, oxygen saturation, breathing rate and temperature, while monitoring the user when he or she is exercising, for example. However, the fitness band does more than simply measure physical activity.</p>
Industrial y Petróleos	<p>Consider the following scenario. A person is trekking in the remote amazon jungle with limited access to water. By measuring the skin hydration of their body with ICFO's fitness band, the user can optimize water intake, preventing any sort of dehydration. Similarly, an explorer hiking to the peak of mount Everest could use the band to accurately monitor oxygen saturation in blood. The high altitude can severely effect oxygen saturation in the body. Using the band, the hiker could monitor these levels and emit a warning if oxygen saturation in the blood decreases drastically below a certain level.</p> <p>In addition to these prototypes being exhibited at MWC 2019, ICFO will also showcase two other light-based graphene technologies. These include the world's smallest single pixel spectrometer and a graphene-enabled hyperspectral image sensor, both with broadband capabilities, beyond to what was once perceived possible without the use of costly and bulky photodetection systems.</p>
Mecatrónica y LCC	<p>By enabling spectroscopy in such small dimensions, consumers could now be equipped with tools that previously were only available to highly specialised laboratories. From the detection of counterfeit drugs to the identification of harmful substances within a product that we use or food that we eat, compact, low-cost spectrometers could become an indispensable accessory of our everyday life.</p> <p>"Built into a smart phone camera, the graphene-based camera sensor allows phones to see more than what's visible to the human eye," comments Frank Koppens, group leader at Graphene Flagship partner ICFO, and Chair of the Graphene Flagship MWC Committee. "Made up of hundreds of thousands of photodetectors, this incredibly small sensor is highly sensitive to UV and infrared light."</p> <p>"This technology would allow users in the supermarket to hold the camera to fruit and infer which is the freshest piece. Or, in a more extreme example, the camera could be used for driving in dangerously dense fog by providing augmented outlines of surrounding vehicles on the windscreen."</p> <p>To find out more about these technologies and to meet the team of experts that have developed these applications, visit the Graphene Pavilion at MWC in NEXTech Hall 8.0 Stand 8.0K31 on February 25-28.</p>

APELLIDO Y NOMBRE:

LEGAJO:

CARRERA:

TRABAJO PRÁCTICO N° 4

- **Voz pasiva:** común y especial, todas las funciones del infinitivo y formas –ing.

I. PASIVAS ESPECIALES**A. Lea y traduzca las siguientes oraciones que contienen frases en voz pasiva (especial)**

1. The point of origin was determined to be Foreman's office.
2. The sudden change in the flow pattern in the elbow is believed to be responsible for the turbulence.
3. The seal is considered to be a thick package of deep-marine shales deposited from the Late Cretaceous until recent times.
4. Since the UAV is intended to provide aid to dangerous locations, the most effective method of delivery was to drop the package over the target area.
5. The deposit was found to have high concentrations of zinc chloride ions consistent with the composition of plumber's flux.
6. A leak was found to form at the bottom of the elbow of the horizontal pipe.
7. Each rig is estimated to create roughly 125 new full-time jobs.

**❖ EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL
(Voz pasiva especial)****B. Lea y traduzca las siguientes oraciones y diga qué tipo de pasiva es (común o especial).**

1. The detailed dates for the vibrations analysis will be given in the case studies below.
2. In this work, the value of the parameter r is chosen to be 0.2 times the standard deviation of the data.
3. Interviews were expected to yield more valuable insights about the use of models, since specific aspects can be investigated in greater detail.
4. The corrosion rate was found to be 61.75 mpy (1.57 mm/year) indicating the failed elbow material has a poor corrosion resistance.

**❖ EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL
(Voz pasiva – común y especial)**

C. Traduzca siguiente texto.

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Industrial y Mecatrónica</p>	<p>What are the main construction technology trends?</p> <p>The construction industry is under a significant paradigm shift. When we look back throughout this industry's history we notice some great advancements have taken place.</p> <p>As the end of the year approaches and we look ahead to 2020 there's no reason we shouldn't expect more of the same to occur. In fact, here are some of the most noteworthy trends experts believe you should expect to see in the construction industry next year.</p> <p>2019 is expected to be a breakthrough year for the construction industry. During last year, construction technology investment has grown by 30% and equals to \$1.05bn. The total value of the sector is expected to exceed \$10trn by 2020.</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Arquitectura y Civil</p>	<p>01 Augmented reality</p> <p>AR is something that's bound to open many new opportunities for the construction industry even though it'll come with a cost.</p> <p>\$90B increase in global AR market by 2020</p> <p>02 Construction Software & Data Ecosystem</p> <p>Real-time collaboration software is expected to function as the digital backbone for the construction process from start to finish.</p> <p>95% of data in construction is thrown away</p> <p>03 Building Information Modeling</p> <p>BIM technology will be the catalyst for a fundamental change in how we manage, design and develop a construction project.</p> <p>88% of construction stakeholders believe that BIM can enable better design insight</p> <p>04 Modular construction</p> <p>The use of standardized processes to assemble as much as possible off-site before they complete the construction project on site can cut down on costs and lead times.</p> <p>Construction projects can be completed 65x faster through modular construction</p> <p>05 Self-healing concrete</p> <p>Many of the industry's experts believe we'll start seeing self-healing concrete being used on roads, buildings and homes.</p> <p>5B metric tons of concrete will be used by 2030</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Mecatrónica y LCC</p>	<p>06 Drones</p> <p>As drone technology continues rapidly developing in its accuracy and precision of its readings, even less human involvement will be necessary.</p> <p>Drone industry value will rise from \$2B to \$10B in the next decade</p> <p>07 Robotics</p> <p>Robotics are continuously growing more precise and accurate, and they'll soon become a commanding force in the construction industry.</p> <p>The industrial robotics market is expected to grow by 175% over the next decade</p> <p>08 Cloud and mobile technology</p> <p>Mobile devices can leverage cloud technology from anywhere, at any time. A must-have if you want your business to remain competitive.</p> <p>IT spends in construction < 1% revenue</p> <p>09 Advanced uses for GPS</p> <p>GPS tracking solutions are now being used in more creative and resourceful ways facilitating the quick and accurate collection of data.</p> <p>120 positioning satellites ready to be used in the next 10 years</p> <p>10 Wearable technology</p> <p>Wearable technology is expected to play a substantial role in boosting safety on site and monitor efficiently the project progress.</p> <p>250 million smart wearables are predicted to be in use by the end of the year</p>

APELLIDO Y NOMBRE:

LEGAJO:

CARRERA:

TRABAJO PRÁCTICO N° 5

- **Oraciones condicionales:** 1ro, 2do y 3er tipo, oraciones condicionales especiales.

A. Traduzca las siguientes oraciones condicionales. Indique a qué tipo de condicional corresponden

1. If there's anything you'd like to see in 2021, don't hesitate to reach out to us.
2. If the fabric is too hot, workers won't wear it compliantly.
3. If this battery had a capacity of 10 mAh, it could supply a current of 40 mA.
4. Propeller guards will absorb the impact if the UAV collides with an obstacle.
5. If a set of UAVs was mass produced and kept in dedicated bases, each base could provide aid to any GPS visible location within a radius of a few miles.

❖ EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL (Oraciones condicionales)

B. Lea las siguientes oraciones. Identifique el caso (nexo "if", otros nexos, inversión). Traduzca.

1. The sustainability review can enhance the ability to keep the material in the use system and/or enhance the break down of the material should it escape into the environment.
2. Adding stabilizers to the resin will enhance the pipe's UV resistance, but manufacturers do not always add stabilizers unless it is specified.
3. This method treats all costs as if they were variable.
4. They wondered whether they should modify the provisions they had already adopted.
5. These can be used directly as calibration points for temperature monitors as long as the substances are pure.

❖ EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL (Oraciones condicionales – Otros nexos)

C. Lea el siguiente texto.

What Would Happen if Pollution Doesn't Stop?

As concerns about the state of the environment continue to escalate, politicians, governments and businesses are all being encouraged to address the issue and reduce pollution levels. However, there are still many parties out there who try and play down the effects of climate change and pollution, whether it be because of misled beliefs or (more likely) vested financial interests.

What would happen if the climate change deniers succeeded? What would happen if we neglected the problem of pollution indefinitely? Our problems would be almost insurmountable, that's for certain. Here are just a handful of the issues that would face the Earth and its inhabitants if we don't check our polluting habits and start taking care of our planet.

Air Pollution

Concerns about the quality of the air we breathe have long been an issue in Britain. As far back as the 13th century, legislators outlawed the combustion of coal for fear of the frightful fumes it released. Of course, the economic benefits ostensibly outweighed the environmental and health concerns, and humanity has leapt from one pollutant practice to the next in the intervening near-millennium.

Should air pollution go unchecked, we can expect our skies to become foggier and our oxygen harder to breathe. Not only will this mean personal discomfort and hazard (as is already experienced by more than a billion people in China and other Asian countries), but could also play havoc with agriculture. Mounting levels of CO² in the Earth's atmosphere would raise temperatures, melting the polar icecaps and raising sea levels. Furthermore, over-pollution of the skies would eventually block out the sun, not only leaving us cold and dark, but without any way of growing crops and feeding livestock. As well as the direct threat to our survival this obviously poses, it would also threaten our economy - as the European Environment Agency (EEA) has already found.

D. Elija la opción de traducción correcta, según la información del texto.

1-As concerns...

- a. A medida que las preocupaciones...
- b. Como las preocupaciones...
- c. Ya que concierne...

2-...there are still many parties...

- a. ...allí hay todavía muchos partidos...
- b. ...hay todavía muchas fiestas...
- c. ...hay todavía muchas partes...

3- if we don't check our polluting habits.

- a. Si no controlamos nuestros hábitos contaminando.
- b. Si no controlamos nuestros hábitos contaminantes.
- c. Si no contaminamos y controlamos nuestros hábitos.

4-El texto trata de:

- a. Soluciones para controlar el cambio climático.
- b. Actitudes ante el problema del cambio climático.
- c. Soluciones para controlar la contaminación.

5- ¿Qué sectores no son mencionados en el texto?

- a. Empresarios
- b. Científicos
- c. Políticos

E. Traduzca el párrafo 3

APELLIDO Y NOMBRE:

LEGAJO:

CARRERA:

TRABAJO PRÁCTICO N° 6

- **Traducciones con se:** pasivas, pasivas especiales, con elipsis, con sujeto consciente, verbos intransitivos, usos impersonales de *you* y *one*.

I. TRADUCCIONES CON “SE”

A. Traduzca la oraciones con casos de traducción con “se”.

1. Efforts have been made to define these windows and to expand them while still retaining regulatory permission.
2. Rolling bearing is one of the key components in rotating machinery and it is widely employed in wind turbines.
3. FeO is one of metastable corrosion product forms which can oxidize continuously to form stable corrosion products.
4. You should be constantly aware of hazards in your workplace.
5. Meanwhile, compared with these statistical indicators, the advantages of sample entropy in early fault detection is revealed.
6. He had been assigned to haul a load of crude oil.
7. The formation of chromium rich phases together with thermal fatigue stresses were found to be main causes of failure.

**❖ EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL
(Traducciones con se)**

II. ELIPSIS

A. Traduzca los siguientes casos de elipsis

1. If necessary, pressure surges can be minimized by installing surge tanks and using valves that open and close slowly.
2. As expected, the development of this new market will come hand in hand with challenges that will need to be overcome.
3. Therefore, these reduced emissions and waste are considered when evaluating the costs of the alternative inspection techniques.
4. Where appropriate, the results are compared with those obtained for bentonite fluids by other investigators.

**❖ EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL
(Elipsis)**

B. Traduzca los segmentos resaltados en el siguiente texto.

Awareness of corrosion importance among engineering undergraduates in the United Arab Emirates

Article (PDF Available) in [Educational Research](#) 9(2):021-034 · March 2018
[Hwee Lim - Khalifa University](#) [E. Gunister - Khalifa University](#)

Abstract

Engineers are ethically responsible for managing corrosion. **While applying corrosion control methods in the industry, it is as important to educate engineering undergraduates on aspects of corrosion and its management.** However, there is little research on corrosion awareness among undergraduate students. This qualitative study examined engineering undergraduates' awareness of corrosion importance in the petroleum industry. **20 sophomore and 44 senior undergraduates were interviewed on their preferred level of corrosion instruction;** understanding of corrosion importance in engineering work; and perceptions of own knowledge and ability to apply corrosion concepts in design. **They were asked to answer a quiz on corrosion concepts. Most participants were found to prefer to study corrosion as an elective at junior, and senior levels.** Compared to sophomores, more seniors reported awareness of corrosion importance in engineering work and had higher positive self-perceptions of their knowledge of corrosion and application ability that were consistent with their higher quiz scores. Interestingly, sophomore and senior participants were more confident of their ability to apply corrosion concepts in design than having theoretical knowledge in corrosion. The findings indicated that undergraduates need to develop greater awareness of corrosion importance in engineering work. **The recommendations provided could be used to improve corrosion engineering education pedagogy.**

APELLIDO Y NOMBRE:

LEGAJO:

CARRERA:

TRABAJO PRÁCTICO N° 7

- **Traducciones con se II:** frases pasivas, acciones reflejas y recíprocas, y frases con *together*, verbos *get*, *become*, *grow*, *turn* y *make*.

A. Traduzca las siguientes oraciones

1. The utilization of proteins for the production of adhesives becomes interesting, when a considerable amount is produced that is preferably not used for human food consumption.
2. The federal government should make sure that state and local oversight efforts are properly evaluated.
3. Paris Reinvents Itself.
4. Both waste scenarios expose a unique challenge, how to selectively capture and discriminate metals from one another.
5. As a result the parts were soldered together with a strip of wire in between, as shown in Fig. 7.
6. The micrograph also shows that the polymer chains, although entangled with one another, appear to be rather stiff.
7. However, while attempting to fly the UAV a second time, the propellers got stuck onto one of the wires, and stopped after going through the wire, causing a crash.
8. Account should be taken that the tolerances of the components used in the practical circuit may not be true to the theoretical values required.

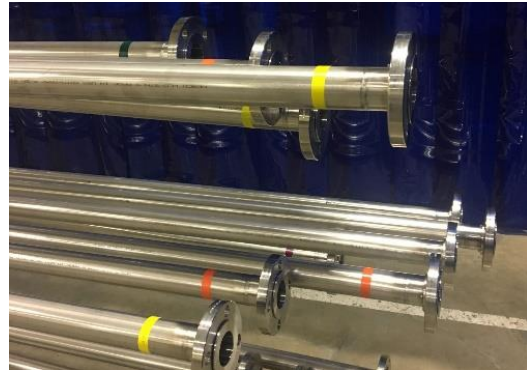
**❖ EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL
(Traducciones con se II)**

B. Traduzca la parte del siguiente texto que corresponda a su grupo.

The Hazards of Contamination in Stainless Steel Fabrication

Posted by [Bill Pollock](#) on Sep 25, 2018 12:46:03 PM

Stainless steel contamination can be a real problem in applications that require clean corrosion free surfaces. This is frequently a requirement in labs as well as food and pharmaceutical plants. Stainless steel, when fabricated correctly, provides excellent corrosion resistance.



Arquitectura y Civil

When misapplied, this will not be the case. Precautions must be taken to prevent contamination of stainless steel surfaces during fabrication. This is possible with the proper precautions, when done in a shop in controlled conditions, and more difficult when installation is carried out in a project field location.

There are several ways that stainless steel can become contaminated during fabrication. The three major causes are contamination with carbon, chloride or mild steel. To have proven results, it is important to eliminate all of them.

Contamination by mild steels occurs just by contact with the stainless steel. This might be caused by contact with tools such as screwdrivers, files, drills and polishing tools that have already been used on mild steel. Or it may be caused by grinding dust produced by using power tools or falling particles of welding and flame cutting on carbon steel in the general proximity.

Contamination by chloride, while less common, can be caused by contact with hydrochloric acid, or even, in extreme cases, from salt in sweat if not cleaned appropriately.

Mecatrónica y LCC

Contamination by Carbon occurs due to welding of stainless steel to carbon steel, flakes from welding carbon steel in the general proximity, or even some pen or markers used to write on both carbon and the stainless. It's common to see rust on process equipment caused just from welding or grinding on carbon steel in the general proximity. Grinding stainless steel welds with mild steel brushes can also leave the pipe covered with polka dots of rust in short order. Once embedded in the stainless steel, it is very difficult to remove all of the rust spots permanently. Once the rust has bloomed, if left untreated, it can progress into pitting corrosion and will haunt the owner from that point on.

I have heard of tanks that developed pinhole leaks in the weld zone, apparently from improper cleaning of the welds. In time, the weld zones can weaken to a point that there is very much a safety issue at stake, particularly with process safety management applications. This has been known to happen on welds that had been cleaned with type 302SS brushes. To prevent issues like this it is recommended to use brushes made with 316L, and nothing less.

One of the sources of iron residue most difficult to avoid is the atmosphere itself. This can be especially true when fabrication is done in the industrial plant rather than in an isolated fabrication shop. Industrial areas have a surprising amount of iron in the air. This iron “falls out” onto exposed items, including previously cleaned stainless steel parts. Also, water which is used to “clean” the surfaces may itself contain iron which will be deposited onto the surfaces thought to be clean. Note that water may also contain other chemicals which may leave rust-colored deposits which may be mistaken for indications of the presence of free iron.

At Optimization we fabricate a lot of systems built of stainless steel. We understand the need for clean, rust free systems and the methods that must be used to fabricate them. Because we perform work for several clients in the chemical, food and beverage, and pharmaceutical industries who have specific contamination concerns, we created a stainless-only welding area, free and clear of iron and carbon contaminates. We use stainless steel vises and tools to help ensure that iron won’t come in contact with the vessels, skids and systems being built.



Empresa de servicios variados con sede en Nueva York.

APELLIDO Y NOMBRE:

LEGAJO:

CARRERA:

TRABAJO PRÁCTICO N° 8

- **Modo subjuntivo parte I:** oraciones con conectores, frases subjuntivas, expresiones con *wish*, verbos que requieren subjuntivo en español, uso de *should*, subjuntivo con *to-infinitive*, imperativos, cláusulas con referencia temporal futura.
- **Oraciones con conectores**

I. Conectores

Cuadro resumen de las funciones de los nexos (ver página 67 del cuadernillo de teoría)

Conectores aditivos o de adición	and, and also, also, as a matter of fact, further, furthermore, in addition, additionally, besides, moreover, nor, ... de alternativa: or, or else, alternatively, apart from this, as well as that, de explicación o clarificación: that is, I mean, in other words, that is to say, de ejemplificación: for instance, for example, thus, i.e, e.g,viz., such as de comparación: likewise, similarly, in the same way (añade algo similar), compared to on the other hand, by contrast, in contrast, in reality, as opposed to this (añade algo diferente) de modo perspectiva y punto de vista: in this way, considering this, in this sense, from this perspective, according to, etc.
Conectores adversativos, o de oposición o contraste	yet, though, but, however, on the other hand, as against that, only, de concesión: although, nevertheless, however, except for, even, even when de corrección: instead, rather, on the contrary,
Conectores de causa y consecuencia	so, then, for, for this reason, because, hence, therefore, consequently, because of this, as a result, in consequence, since, due to this, de propósito: for this purpose, for this reason, in order to, so as to, so that, de condición: in that case, in such an event, if, then, under the circumstances, otherwise, unless, even if, as long as,
Conectores temporales o de orden textual	de secuencia: first, at first, then, next, after that, soon, after a time, next time, on another occasion, next day, from now on, afterwards, since de simultaneidad: at the same time, meanwhile, at this moment, while, whereas de anterioridad: previously, before that, up to now, conclusivas, de resumen y cierre: finally, at last, in conclusion, to sum up, in short, briefly, to conclude,

II. Subjuntivo

A. Traduzca las siguientes oraciones con conectores y modo subjuntivo

1. You should not require workers to drive irregular hours or far beyond their normal working hours.

2. Maybe if all the empowered people were co-owners, they might see their responsibility in a way that minimizes adverse actions.
3. So we decided to ask them to be our collectors.
4. One reason for nervousness on the part of insurers and investors is the fear that some companies are not being transparent.
5. Many jurisdictions require that a permit be obtained by the client or tenant of a building
6. To be able to safely reach supply drop points for humanitarian aid, a controller was needed that could interface with a radio communicator, as well as the necessary sensors.
7. It would also be ideal to design and produce a perfect fitting protective shell, and moving landing gear, so that the UAV moves smoother and suffers minimal injury.
8. Develop alternative tank gauging procedures so workers do not have to routinely open hatches on the tops of the tanks and manually gauge the level of liquid.

❖ **EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL
(Traducciones con subjuntivo)**

B. Traduzca las siguientes oraciones con conectores.

1. Boris Johnson promised a radical agenda in which “no community is left behind.” Yet what has emerged, in housing, is an unequal funding formula.
2. Moreover, 347H austenitic stainless steel is a well-known grade for its excellent resistance to intergranular corrosion and intergranular stress corrosion cracking (SCC).
3. In this regard, Sigma phase formation is a typical problem in welding of stainless steels and during working service at high temperatures (in the range of 450°C to 850 °C).
4. To round things out, check out the article on one fabricator’s training tactics that are giving his company a leg up in the marketplace.

❖ **EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL
(Traducciones en subjuntivo y nexos)**

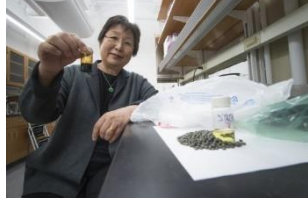
C. Traduzca las secciones en negrita en el siguiente texto

Millions of tons of plastic waste could be turned into clean fuels, other products

Chemical conversion process could transform polyolefin waste

Date: February 6, 2019

Source: Purdue University



A chemical conversion process developed at Purdue University allows researchers to turn recycled shopping bags into pellets into oil as shown in the bottle being held by Linda Wang, the Maxine Spencer Nichols Professor in the Davidson School of Chemical Engineering. Using distillation, that oil is separated into a gasoline-like fuel in the bottle in the counter and a diesel-like fuel not shown.

Credit: Purdue Research Foundation/Vincent Walter

The United Nations estimates that more than 8 million tons of plastics flow into the oceans each year. A new chemical conversion process could transform the world's polyolefin waste, a form of plastic, into useful products, such as clean fuels and other items.

"Our strategy is to create a driving force for recycling by converting polyolefin waste into a wide range of valuable products, including polymers, naphtha (a mixture of hydrocarbons), or clean fuels," said Linda Wang, the Maxine Spencer Nichols Professor in the Davidson School of Chemical Engineering at Purdue University and leader of the research team developing this technology. "Our conversion technology has the potential to boost the profits of the recycling industry and shrink the world's plastic waste stock."

Wang, Kai Jin, a graduate student, and Wan-Ting (Grace) Chen, a postdoctoral researcher at Purdue, are the inventors of the technology, which can convert more than 90 percent of polyolefin waste into many different products, including pure polymers, naphtha, fuels, or monomers. The team is collaborating with Gozdem Kilaz, an assistant professor in the School of Engineering Technology, and her doctoral research assistant, Petr Vozka, in the Fuel Laboratory of Renewable Energy of the School of Engineering Technology, **they intend that the conversion process optimizes to produce high-quality gasoline or diesel fuels.**

The conversion process incorporates selective extraction and hydrothermal liquefaction. **Once the plastic is converted into naphtha, it can be used as a feedstock for other chemicals or further separated into specialty solvents or other products.** The clean fuels derived from the polyolefin waste generated each year can satisfy 4 percent of the annual demand for gasoline or diesel fuels. Some results of Wang's study were published Jan. 29 in *ACS Sustainable Chemistry and Engineering*.

Wang became inspired to create this technology after reading about the plastic waste pollution of the oceans, ground water, and the environment. Of all the plastics produced over the past 65 years (8.3 billion tons), about 12 percent have been incinerated and only 9 percent have been recycled. The remaining 79 percent have gone into landfills or the oceans. The World Economic Forum predicts that by 2050 the oceans will hold more plastic waste than fish if the waste continues to be dumped into bodies of water. Wang said the technology could convert up to 90 percent of the polyolefin plastic.

"Plastic waste disposal, whether recycled or thrown away, does not mean the end of the story," Wang said. "These plastics degrade slowly and release toxic microplastics and chemicals into the land and the water. This is a catastrophe, because once these pollutants are in the oceans, they are impossible to retrieve completely."

The work aligns with Purdue's Giant Leaps celebration, acknowledging the global advancements in sustainability as part of Purdue's 150th anniversary. This is one of the four themes of the yearlong celebration's Ideas Festival, designed to showcase Purdue as an intellectual center solving real-world issues.

Wang said she hopes her technology should stimulate the recycling industry to reduce the rapidly rising amount of plastic waste. She and her team are looking for investors or partners to assist them with demonstrating this technology at a commercial scale.

Wang's technology is patented through the Purdue Research Foundation's Office of Technology Commercialization.

APELLIDO Y NOMBRE:

LEGAJO:

CARRERA:

TRABAJO PRÁCTICO N° 9

- **Modo subjuntivo parte II:** en oraciones condicionales, expresiones *keep from, prevent from, stop from, enable to, allow to, be likely to*, causativos. Introdutores *it y there*.

A. Traduzca las siguientes oraciones

1. Should a vacancy occur on a committee, a new member would be elected or selected prior to the next scheduled meeting.
2. In plain English this criterion should prevent valuable feedstock from being used in comparatively low value materials.
3. In order for the natural gas to remain a liquid, the LNG must be kept in a container with similar properties to a ‘thermos’.
4. Automatic elevators require buttons that people could push to stop the doors from closing and to hold them open.
5. An ESEM was used because it does not require the specimen to be coated with a layer of conductive material as in a conventional SEM; the microstructure of the fluid is more likely to be preserved. (ESEM: environmental scanning electron microscope)
6. For a quadcopter to travel in the direction of a certain motor, that motor must decrease its RPM as the opposite motor increases its RPM, causing the motors to generate less and more upward thrust, respectively.
7. Perhaps there would not exist such a proliferation of management consultants and process improvement experts had industrial engineers in many organizations and the profession at large been more adept at recognizing opportunities.
8. Lacking the budget to hire out the welding, he invested in some low-end welding equipment and learned what he needed to know to get the job done.
9. In some cases, the designers choose to have the UAV landed with the cargo, and either release the package before flying off or have a receiver remove the package from the UAV.
10. Unfortunately, these tanks do not have the capability to withstand the pressure needed to control a BOG management system at a size below 4000 m³, although it is possible for some of these tanks to be as small as 2000 m³.
11. These tanks are not required to be surrounded by a dyke or bund wall.
12. It is size that makes nanomaterials behave differently, and perhaps more dangerously, than normal-size substances.
13. Having your air conditioning system checked by a professional before the cooling season starts can prevent major mechanical issues and costly repairs from happening.
14. It also will allow a professional service technician to diagnose small problems before they become bigger, more expensive problems.

15. Below is a list of a few things that are important to have your HVAC (climatización) contractor check over.
16. High or low refrigeration pressures can be very hard on your air conditioner's compressor and can eventually cause them to fail.
17. **Clean & Check Condenser:** Helps with the efficiency of your HVAC system and helps prevent the unit from having to over work.
18. This pre-coated metal plate is less likely to be damaged by static electricity caused by friction.
19. Vision systems enable industrial robot arms to recognize which product is which.
20. It requires work to be completed around humans of opposed a workcell as to inside.
21. Some collaborative robots can even be taught to do tasks by letting a human guide their arms once to learn the motion.
22. Belts and hoses: When you're having your vehicle serviced, make the mechanic check the belts and hoses for wear and tear, regardless of the age of your car.
23. Today, however, it is more common for third-party manufacturers to purchase tires and wheels from suppliers.
24. Under Federal regulations, each TWA producer is required to record the DOT codes of all tires for tracking purposes.
25. Prior to entering the system, the height of the tire must be verified to prevent the system from being damaged.
26. The association says this indicates that the "use of robots parallels overall improvements in employment rather than causing employment to decrease.

❖ **EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL
(Traducciones con subjuntivo II)**

B. Lea el texto que está a continuación. Tradúzcalo

Developable mechanisms can reside inside the surface of a structure

Date: February 13, 2019
University

Source: Brigham Young

It took just over 10 years, but real science has finally caught up to the science fiction of Iron Man's transforming exoskeleton suit.

In a paper published today in *Science Robotics*, engineers at Brigham Young University detail new technology that allows them to build complex mechanisms into the exterior of a structure without taking up any actual space below the surface.

This new class of mechanisms, called "developable mechanisms," get their name from developable surfaces, or materials that can take on 3-D shapes from flat conformations without tearing or stretching, like a sheet of paper or metal. They reside in a curved surface (like, say, the arms of Iron Man's suit) and can transform or morph when deployed to serve unique functions. When not in use, they can fold back into the surface of the structure seamlessly.

"These new discoveries make it possible for them to build complex machines that integrate with surfaces to be very compact, but can deploy and do complex tasks," said researcher

Larry Howell, professor of mechanical engineering at BYU. "It opens up a whole new world of potential devices that have more functions, but are still very compact."

Making hyper-compact mechanisms is something increasingly important as manufacturers across medical, space and military industries are constantly working to get more complex functionality in less space. Potential applications of developable mechanisms include:

- Medical: Surgical instruments that can both cut materials and deploy lights simultaneously during minimally-invasive surgery
- Vehicles and airplanes: Storage components that could deploy from the inner surface of the fuselage and be completely out of the way when not in use
- Military: Quad-rotor drones that have adjustable wing spans for fitting in tight spaces
- Space: Wheels that could deploy claws for rock crawling, which could be especially useful to an interplanetary rover.

This new class of mechanical structures evolved from Howell and colleague Spencer Magleby's work on origami-based engineering, done in collaboration with origami artist Robert Lang. From solar arrays for NASA to bulletproof barriers for police officers, their work has generated national and international coverage. As the group of researchers moved to curved origami principles, the mathematics revealed a new way of doing more complex machines.

"Origami was a stepping stone to this," Magleby said. "The art of Origami has inspired us to do things that don't even look like Origami, yet it is the core of much of this new engineering."

The new line of research is sponsored by the National Science Foundation and includes researchers at BYU, the University of Southern Indiana and Lang Origami.

"It's pretty cool to accomplish things that have merely been science fiction in the past," Howell said. "These are discoveries that will enable us to do things that no one has ever been able to do before. And we hope that other engineers, as they build on these discoveries, will apply them in ways that will help make the world a better place."

APELLIDO Y NOMBRE:

LEGAJO:

CARRERA:

TRABAJO PRÁCTICO N° 10

- **Comparación de adjetivos y adverbios:** comunes, irregulares, comparativos especiales.

A. Traduzca las siguientes oraciones

1. These processes require less equipment than those used on global export facilities and are far less complex which lead to a simplified operation.
2. Durability issues can drive up costs—the higher the FRC replacement rate, the higher the overall costs. (FRC: flame-resistant clothing)
3. "Standard culture conditions are like a five-star hotel for Geobacter," says Gemma Reguera of Michigan State University in East Lansing, who led the research. "We had to make life a little rougher for them."
4. The micro-hardness has increased from the outer side of tube towards the inner side of the tube in HAZ area of the failed pipe.
5. Of course, we also need an environment that connects people, is well-lit – the more daylight the better – well-ventilated, has good temperature controls, is connected to nature and where water is readily available to keep us hydrated.
6. Eight of my favorite green building experts were asked one question: "What notable trends ensure us to live a better and better life?"
7. The underlying framework needs to be as efficient as it can be, either managing the data, enabling the geophysical process, or both.
8. "This work ties a lot of things together," says Derek Lovley, a microbiologist at the University of Massachusetts Amherst and Reguera's former postdoctoral supervisor.
9. The materials intensity of products and processes is a good proxy for their environmental impacts, i.e. the more material is needed in a given product or service, the larger the environmental impact caused in the production stage of those materials.
10. Nonetheless, looking at the timeline of events in the management of Ghana's e-waste, a significant activity and intervention is the establishment of a legal framework.
11. In brief, these wearable suits help people to walk and lift heavy objects with minimal effort, reducing required muscle force by as much as 60%.
12. Materials that increase the life of existing building supplies such as self-healing concrete will also become a lot more popular.
13. Nanomaterials are usually defined as materials that have at least one dimension smaller than 100 nanometers.
14. In stabilized grades, Sigma phase precipitation is faster than other grades of stainless steel grades (for example as is shown in Fig. 2, precipitating in alloy 347 is slightly faster than that in alloy 321).



EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL (Comparativos y superlativos)

B. 1) En el siguiente texto, subraye todos los casos de estructuras comparativas y superlativas (comunes y especiales), y 2) Traduzca dichas oraciones.

6 of the lightest and strongest materials on earth

The future of construction is getting more and more exciting thanks to huge technological developments in material innovation. Researchers are constantly developing new materials that are stronger and lighter than ever before, paving the way to a more energy-efficient and eco-friendly future in everything from transportation to medical technology. We've rounded up six cutting-edge materials that rank among some of the lightest and strongest ever discovered—keep reading to see them all.

3D Graphene

Made from pure carbon, ultra-thin graphene is thought to be one of the strongest materials on the planet. But earlier this year, researchers at MIT found a way to turn two-dimensional graphene into a three-dimensional structure by designing a new material with a sponge-like configuration that's 5 percent the density of steel and about 10 times as strong. The super-strong and lightweight 3D graphene has been shown to be stronger than its 2D counterpart and offers greater potential uses thanks to its building block form.

Carbyne

In the spring of 2016, a team of Austrian researchers revealed that they were able to successfully synthesize Carbyne, an exotic form of carbon that they say is the strongest of all known materials—even surpassing graphene. Considered the holy grail of carbon allotropes, Carbyne is made from a monodimensional chain of carbon atoms that's highly reactive, making it very tricky to synthesize. The stiff material is believed to be twice as strong as carbon nanotubes.

Aerographite

Created from a network of porous carbon tubes, aerographite is synthetic foam that's one of the lightest structural materials ever created. Developed by researchers at the University of Kiel and the Technical University of Hamburg, aerographite can be produced in a variety of shapes and boasts a density of just 180 grams per cubic meter, making it about 75 times lighter than styrofoam. The material could be used on the electrodes of lithium ion batteries to reduce their weight.

Aerographene

Aerographene, also known as graphene aerogel, is believed to be the world's lightest material with a density of just 0.16 milligram per cubic centimeter. Zhejiang University researchers developed the material, which is approximately 7.5 times less dense than air. The extremely elastic material can absorb up to 900 times their own weight in oil and water, making oil spill cleanups a potential application.

Metallic microlattice

Metallic microlattice is the world's lightest metal and one of the lightest structural materials. This synthetic porous material made from nickel phosphorous tubes has a density as low as 0.9 milligrams per cubic centimeter. Potential uses include applications in automotive engineering, aeronautical engineering, and more.

Limpet teeth

The teeth of limpets, the term for aquatic snails found clinging to rocky shores, are considered to be one of the strongest biological materials in the world. Made of a mineral-protein composite, limpet teeth have been revealed in a University of Portsmouth study to be much stronger than spider silk. Its strength is believed to be due to its tightly packed mineral fibers, which scientists could combine into man-made composites to create stronger planes, cars, and even dental fillings.

APELLIDO Y NOMBRE:

LEGAJO:

CARRERA:

TRABAJO PRÁCTICO N° 11

- **Expresiones críticas para la traducción.**

A. Traduzca las siguientes oraciones

1. Studies purporting to identify accident-prone individuals have often employed incorrect statistical techniques that fail to compare distributions of accidents.
2. LCNG refueling stations have the ability to compress liquefied natural gas at a maximum pressure of 300 bars in order to fuel CNG appropriate vehicles.
3. One molecule of melamine is produced out of six molecules of urea (producing six molecules of ammonia and three molecules of CO₂ as side products).
4. The contact tips also have greater mass at the front compared to other designs, along with a taper that mates securely with the gas diffuser.
5. Even when the fuel gas suddenly stops, the supply of vaporizer gas will continue for a limited time because of the capacity of the heated water bath.
6. By designing a UAV that is specifically catered towards humanitarian purposes, the public can recognize that UAVs can have a positive impact on society rather than a negative one.
7. Once integrated, all functions will be ready to meet new demands and know how each change should be tailored to support the other functions.
8. On a mass basis, spider silk is five times stronger than steel.
9. The patch panels and fasteners should be coated with a sealing compound and fitted wet.
10. When opportunities for fuel conservation are to be assessed, it becomes necessary to use a measure other than energy.
11. If the repair is to a sandwiched construction, the inner coating and core are repaired in a first step.
12. When this approach is used, similar tasks from all over the facility are considered and standards are engineered to provide consistent methods and times.
13. The spine houses all critical functions necessary for the operations and control of the facility as a whole.
14. For that purpose it is necessary to promote standardization and qualification of distribution equipment which recognizes the mutual interrelationship of such equipment, even bridging different companies.

❖ **EJERCICIO A RESOLVER EN LA PLATAFORMA DE AULA VIRTUAL**
(Expresiones críticas)

B. Traduzca el siguiente texto.

Metal- to- metal wear

Properly lubricated metal parts wear slowly, for a film of the lubricant keeps the metals from actually touching. Inadequate lubrication or excessive pressure will allow metal to make contact and then a gall or cold weld may result as one part slides over the other. Two pieces of aluminium may be cold welded by brushing the surfaces and then pressing or rolling the prepared surfaces together. In a similar manner, a steel part that slides over another steel member may rub off the separating film. With high enough contact pressure, the iron atoms of each surface may get close enough to each other to exert their potential atomic forces of attraction. Frequently the little weld thus formed is strong enough to hold and pull some of the parent metal. This bit of metal will plow into the surface of the other member, picking up more metal, and soon the parts will be keyed or frozen together. If this does not happen, they will certainly be chewed up to the extent that they must be replaced. Certain combinations of metal gall less readily than others: steel does not gall when working with brass or bronze. In general, hard metals gall less readily than soft ones.

TRABAJO PRÁCTICO EXTRA

- **Revisión de estructuras y vocabulario y expresiones comunes en los empleos ofrecidos.**

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Tipo de empleo

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Ubicación

San Francisco, CA

Descripción completa del empleo

Who are we?

Our mission is to scale intelligence to serve humanity. We're training and deploying frontier models for developers and enterprises who are building AI systems to power magical experiences like content generation, semantic search, RAG, and agents. We believe that our work is instrumental to the widespread adoption of AI.

We obsess over what we build. Each one of us is responsible for contributing to increasing the capabilities of our models and the value they drive for our customers. We like to work hard and move fast to do what's best for our customers.

Cohere is a team of researchers, engineers, designers, and more, who are passionate about their craft. Each person is one of the best in the world at what they do. We believe that a diverse range of perspectives is a requirement for building great products.

Join us on our mission and shape the future!

Why this role?

As a Solutions Architect at Cohere, you will play a significant role in growing the business and have a great deal of autonomy when it comes to technical pre- and post-sales. Your responsibilities will include developing a deep understanding of customer problems, mapping them to Cohere solutions, and working closely with our partners as the trusted technical advisor who owns the technical relationship with our stakeholders. By leveraging your expertise, you will help to increase the adoption of Cohere products, both internally and externally, and will gather valuable insights and feedback from customers to help shape the future of our products.

In this dynamic role, you will need to be both a strategic thinker and a hands-on doer. You will take a hands-on approach to building customer Proof of Concepts that showcase the business value of our platform. As the technical relationship owner, you will collaborate with stakeholders to understand their business objectives and translate those into technical solutions. You will take ownership of the customer narrative, serving as the voice of the customer and acting as a liaison between the customer and our product team. Additionally, you will provide guidance on best practices for using Cohere, identify areas for improvement within the platform, and cultivate technical champions within customer organizations to drive adoption and gather feedback to enhance our products.

A typical day at Cohere might include:

- Leading the technical talk track on customer calls.
- Deep dives on customer problems and Cohere technology.
- Designing novel enterprise solutions with bleeding-edge NLP technology.
- Facilitating customer evaluations and PoC.
- Developing and documenting processes to enable the solutions architect team to scale effectively within Cohere.
- Collaborating with the Product and Engineering teams to ensure our offering match the customers' desires.
- Working closely with our partners to develop a strategy for enabling and accelerating their customers.

This might be for you if you have some of the following:

- 5+ years of customer-facing technical pre/post sales Solutions Architect experience.
- 5+ years working with Sales to drive GTM motions.
- 2+ years architecting or deploying cloud-native solutions.
- A passion for Generative AI, and an understanding of strengths and weaknesses of Generative LLM's.
- Fundamental knowledge of ML, and basic knowledge of AI, NLP, and Large Language Models (LLM).
- Comfortable working with Python and Jupyter Notebooks.
- Comfortable using version control/Git.
- Excellent communication skills - you can toggle seamlessly between presenting to CEOs, and getting in the weeds or white boarding with technical audiences.
- High tolerance for ambiguity.
- You can identify and implement high-impact processes in unstructured environments.

If some of the above doesn't line up perfectly with your experience, we still encourage you to apply! If you consider yourself a thoughtful worker, a lifelong learner, and a kind and playful team member, Cohere is the place for you.

We value and celebrate diversity and strive to create an inclusive work environment for all. We welcome applicants of all kinds and are committed to providing an equal opportunity process. Cohere provides accessibility accommodations during the recruitment process. Should you require any accommodation, please let us know and we will work with you to meet your needs.

Our Perks:

An open and inclusive culture and work environment

Work closely with a team on the cutting edge of AI research

Weekly lunch stipend, in-office lunches & snacks

Full health and dental benefits, including a separate budget to take care of your mental health

100% Parental Leave top-up for 6 months for employees based in Canada, the US, and the UK

Personal enrichment benefits towards arts and culture, fitness and well-being, quality time, and workspace improvement

Remote-flexible, offices in Toronto, Palo Alto, San-Francisco and London and co-working stipend

➔ 6 weeks of vacation

Note: This post is co-authored by both Cohere humans and Cohere technology.

Landscape Architect (LVIA Experience)

AECOM

5,358 reviews

2 Leman Street, London

Hybrid remote

Part-time, Full-time

You must create an Indeed account before continuing to the company website to apply

[Apply now](#)

[Job details](#)

Here's how the job details align with your [profile](#).

Job type

- **Part-time**
- **Full-time**

[Location](#)

2 Leman Street, London

[Full job description](#)

[Company Description](#)

Work with Us. Change the World.

At AECOM, we're delivering a better world. Whether improving your commute, keeping the lights on, providing access to clean water, or transforming skylines, our work helps people and communities thrive. We are the world's trusted infrastructure consulting firm, partnering with clients to solve the world's most complex challenges and build legacies for future generations.

There has never been a better time to be at AECOM. With accelerating infrastructure investment worldwide, our services are in great demand. We invite you to bring your bold ideas and big dreams and become part of a global team of nearly 50,000 planners, designers, engineers, scientists, digital innovators, program and construction managers and other professionals delivering projects that create a positive and tangible impact around the world.

We're one global team driven by our common purpose to deliver a better world. Join us.

Job Description

We are currently seeking a Landscape Architect to join and support the growth of our landscape planning team based across UK and Ireland. As a member of one of the UK and Ireland's largest and most diverse landscape practices, you will take a lead on a range of types and sizes of projects, including renewable energy, major infrastructure, urban regeneration, and environmental enhancement schemes. These projects offer the opportunity to work in multi-disciplinary teams, influencing design from an early stage and shaping the landscape on a broad scale, while supporting progress towards net zero and delivering wider environmental and social benefits.

We will consider applicants with a wide range of experience and a keen and demonstrable experience in landscape planning, including LVIA and TVIA. This is an opportunity to join a team which is growing and with strong links across many disciplines. The successful candidate would be involved in projects throughout the UK and can help deliver our current portfolio of overseas projects.

We are looking for a team player with good technical skills who wishes to be involved in the development of innovative, cost effective and buildable solutions in an environment that is collaborative, stimulating and challenging. The role would suit a self-motivated individual looking to advance their career in a dynamic team.

AECOM's Freedom to Grow programme allows you to take control of your working life and work the hours that suit you. The role is also flexible on location, and we would be interested to hear from applicants seeking either a part time or full-time position. AECOM offers a competitive and flexible package of benefits which can be tailored to suit your lifestyle.

Job Responsibilities:

Applicants should be able to demonstrate an appropriate level of technical expertise in order to be able to carry out the following job/project accountabilities:

- + Undertake site survey work.
- + Produce and/or oversee the production of reports, drawings and other technical documentation using appropriate software, with the necessary level of detail as required at various stages of development from assessments and strategies to mitigation design.
- + Be client facing and respond to client requirements with the support of senior staff.
- + Clear communication, including the ability to contribute to conference calls, meetings and workshops.
- + Have the technical ability, knowledge and competence to provide guidance to teach and develop junior staff.
- + Ability to work collaboratively and iteratively within a multi-disciplinary design team.
- + Be aware of and understand the AECOM procedures, their importance and their application to projects.

Qualifications

Minimum Requirements

- + Chartered Member of the Landscape Institute (CMLI) with up to two years post Chartership experience. Candidates within the last quarter of Pathways to Chartership (P2C) will also be considered.
- + Fluency in English and ability to communicate effectively.
- + Thorough knowledge and understanding of the UK planning system with respect to landscape architecture.
- + Technically competent in preparing LVIA/TVIA and appraisals and evidence-base documents in accordance with best practice.

- + An understanding of project management, including financial control and reporting and programme management and ability to manage own budgets.
- + Proficient in the use of Microsoft Office Suite, AutoCAD and Adobe Creative Cloud software.
- + **Experience of some or all of the following useful:** ArcGIS, AutoCAD Civils 3D, Revit, LSS or ProjectWise.
- + Full UK driving licence.

Additional Information

Preferred Qualifications

- + Landscape Institute accredited Bachelor's degree, Diploma and/or Master's degree.
- + Recently qualified CMLI or within the last quarter of P2C

About AECOM

AECOM is the world's trusted infrastructure consulting firm, delivering professional services throughout the project lifecycle – from advisory, planning, design and engineering to program and construction management. On projects spanning transportation, buildings, water, new energy and the environment, our public- and private-sector clients trust us to solve their most complex challenges. Our teams are driven by a common purpose to deliver a better world through our unrivaled technical and digital expertise, a culture of equity, diversity and inclusion, and a commitment to environmental, social and governance priorities. AECOM is a Fortune 500 firm and its Professional Services business had revenue of \$13.1 billion in fiscal year 2022. See how we are delivering sustainable legacies for generations to come at aecom.com and @AECOM.

Freedom to Grow in a World of Opportunity

You will have the flexibility you need to do your best work with hybrid work options. Whether you're working from an AECOM office, remote location or at a client site, you will be working in a dynamic environment where your integrity, entrepreneurial spirit and pioneering mindset are championed.

You will help us foster a culture of equity, diversity and inclusion – a safe and respectful workplace, where we invite everyone to bring their whole selves to work using their unique talents, backgrounds and expertise to create transformational outcomes for our clients.

AECOM provides a wide array of compensation and benefits programs to meet the diverse needs of our employees and their families. We also provide a robust global well-being program. We're the world's trusted global infrastructure firm, and we're in this together – your growth and success are ours too.

Join us, and you'll get all the benefits of being a part of a global, publicly traded firm –

access to industry-leading technology and thinking and transformational work with big impact and work flexibility. As an Equal Opportunity Employer, we believe in each person's potential, and we'll help you reach yours.

All your information will be kept confidential according to EEO guidelines.

ReqID: J10095183

Business Line: B&P - Buildings & Places

Business Group: DCS

Strategic Business Unit: Europe & India

Career Area: Design

Work Location Model: Hybrid

Software Architect

ALLO Communications

54 evaluaciones

330 South 21st Street, Lincoln, NE

\$120,000 - \$155,000 por año - Full-time

crea una cuenta de Indeed antes de continuar a la página web de la empresa.

Postularse en la página de la empresa

Sueldo

- **\$120,000 - \$155,000 por año**

Tipo de empleo

- **Full-time**

Ubicación

330 South 21st Street, Lincoln, NE

Descripción completa del empleo

At ALLO, we believe people are our biggest asset. Our team brings the ALLO mission to life because as local members of each community, we live, work, play, and volunteer right here with you. We're passionate about being involved and contributing to the success and progress of each of our GIG Communities.

We pursue these passions because ALLO leaders have created a workplace where folks are valued, ideas are heard, and leaders and teammates show up for each other at work and in life.

We are looking for a Software Architect who can work collaboratively within the System Integration Group (SIG) and across Business Operational areas to help design and deliver pragmatic solutions based on business value and SIG technology direction. This role provides technical leadership to agile teams and is also expected to pull work from the product backlog periodically.

RESPONSIBILITIES:

- Understands and demonstrates current job family technical skill expectations.
- Engages with Agile teams to deliver high quality, working software solutions in alignment with team commitments.
- Leads and facilitates application design, implementation of architectural patterns, and consistent development practices on projects and within product teams.
- Understands the business domain of products supported.

- Ensures technology architecture and development principles are aligned with SIG technology direction.
- Knowledgeable of all existing services, components, and technologies to ensure maximum technology reuse.
- Independently identifies and pursues opportunities to improve software architecture across the enterprise.
- Explores and pursues technical skills outside of current job family.
- Actively seeks to remain technically current and increase expertise and abilities.
- Understands and exhibits skills to protect data, systems and networks and maintains secure, reliable, redundant, and accessible systems.
- Strives to align personal passion and career desires with opportunities and company needs.

Colorado Residents: typical pay range for this role will be from \$120,000 - \$155,000 per year, base pay may vary based on experience.

EDUCATION:

- Bachelor's degree or Master's degree in Computer Science, Engineering, related discipline or equivalent experience

EXPERIENCE:

- Minimum 8 years of experience in software development with a strong expertise in at least one key competency.
- 2 to 3 years of experience as a technical or development leader with a demonstrated ability to deliver medium to large scale technology solutions.

SKILLS / KNOWLEDGE / ABILITIES:

- Strong technical competency in the following:
 - Full Stack Development expertise:
 - Python
 - JavaScript
 - React (React Hooks)
 - TypeScript
 - GraphQL
 - Deep understanding of AWS and its services (storage, database, security, and networking services)
 - Solid understanding of web technologies
 - Experience with GitLab or similar system utilizing CI/CD Pipelines
 - Working knowledge of SQL and NoSQL databases and ability to work with complex database schema or access patterns
 - REST APIs
 - Service Based Architecture
 - Secure Development Practices
- Nice to have
 - Experience designing, building, and maintaining a Data Lake
 - Experience integrating automated testing tools
- Understanding of best practices, standards and methods to integrate applications within the organization and with external partners.
- In-depth knowledge of the full software development lifecycle; with exposure to agile or iterative approaches to delivery preferred.
- Strong verbal and written communication skill; with the ability to communicate at all levels of the organization.
- Ability to quickly learn new technologies and business functions.
- Strong analytical skills to determine effective approaches to business solutions.

- Self-directed with the ability to motivate, inspire, and lead team members on an application solution.
- Demonstrated effective performance in a team-oriented environment.

REQUIREMENTS:

- Remain stationary for extended periods
- Ability to communicate information
- Ability to operate a computer
- Possess/maintain a valid driver's license
- 10% travel requirement

People are our passion. At ALLO, we don't treat you like a number. You're a human being.

Get ready to plug into the perks at ALLO:

- Free ALLO Service: We'll pick up the tab on your ALLO fiber internet, TV, and phone bill. Seriously!
- Retirement Plan: The fiber future isn't the only one we care about. We match your 401(k) savings up to 5%.
- Health and Wellness: Participate in quarterly wellness challenges, and we'll deposit extra cash into your checking or health savings accounts.
- Benefits: Our benefits include medical, vision, and dental with low employee costs. Not to mention generous Earned Time Off (ETO) program.
- Sponsorships: Are you passionate about a local fundraiser or philanthropy? We strive to give back to what matters most to our communities.
- Tuition Assistance: Have a thirst for knowledge? We like that, which is why we're proud to offer assistance with the cost of your tuition.

ALLO is an Equal Opportunity Employer. We are committed to providing opportunities to all applicants and associates without regard to race, color, religion, sex, pregnancy, national origin, age, disability, marital status, sexual orientation, gender identity, military and veteran status, and any other characteristic protected by applicable law.

ALLO believes that diversity and inclusion within our team is critical to our success as a company. We seek to recruit, develop, and retain the most talented people.

Qualified individuals with disabilities who require reasonable accommodations in order to apply may contact Recruiting at recruiting@allofiber.com

ALLO is a Drug Free and Tobacco Free Workplace.

Sr mechatronics engineer

ASML

407 evaluaciones

San Jose, CA

Full-time

crea una cuenta de Indeed antes de continuar a la página web de la empresa.

Postularse en la página de la empresa

Información del empleo

Así es como las especificaciones del empleo se alinean con tu **perfil**.

Tipo de empleo

- **Full-time**

Ubicación

San Jose, CA

Descripción completa del empleo

Location

San Jose, US

Team

Design Engineering and Architecture

Work experience

4-9 years

Educational background

Physics, Mechanical Engineering, Mechatronics

Technical field

Mechatronics

Travel

10%

Programming languages

C++, Python

Workplace type

On-Site

Fulltime/parttime

Full time

Job ID: J-00291843

Introduction to the job

The Mechatronics Engineer position is set to play an important role in the wafer flow of our SEM (Scanning Electron Microscope) systems, including wafer clamping and wafer positioning in vacuum as well as active vibration isolation and overall system dynamics. In addition, overall system behavior must be characterized in order to optimize overall performance and better understand the multi-physics interactions that affect these extremely sensitive systems.

This position requires access to controlled technology, as defined in the Export Administration Regulations (15 C.F.R. § 730, et seq.). Qualified candidates must be legally authorized to access such controlled technology prior to beginning work. Business demands may require ASML to proceed with candidates who are immediately eligible to access controlled technology.

Role and responsibilities

Operate in an extremely requirements driven environment where specifications need to be well established, design details and tradeoffs need to be accurately captured and objective testing needs to confirm adherence.

Firm understanding of motion control systems, closed loop feedback operation, servo loop tuning, actuation systems and feedback devices.

A fundamental understanding of multi-physics systems including kinematics, statics, dynamics, vibration, electro-magnetics and thermodynamics in various pressure environments.

Ability to device experiments using various sensing modalities, performing data processing and analysis and constructing conclusive data analysis and presentation.

Inglés Técnico Prof. Gladys Barsotti – Prof. Corina G. Cepparo – Prof. Stella Pellicer – Prof. Lilia Diéguez

Collaborate within the team, as well as with external teams in a matrix style engineering organization.

Performing hands-on testing in non-clean room and clean room labs on either complete systems or sub-systems and sub-modules.

Working with external and internal suppliers of the components and modules that make up wafer flow.

Manage the overall hardware structure (BOM) of the modules that provide wafer flow.

Education and experience

MS degree or higher in a mechatronics and/or multi-physics related field.

Minimum five (7) years of relevant work related experience in motion control centric capital equipment.

Experience with modeling and analysis engineering software such as Matlab/Simulink, Ansys/Comsol etc.

Experience with high precision and mission critical capital equipment in high volume manufacturing (semiconductor preferred).

Both hands-on lab experience as well theoretical analysis of design and troubleshooting problems.

Experience with technical writing of requirements, design specifications and test plans.

Can multi-task to achieve success.

Can make technical decisions based on a good understanding of design scope, timeline and cost.

Skills

- Can observe and respond to people and situations and interact with others encountered in the course of work.
- Can learn and apply new information or skills.
- Must be able to read and interpret data, information, and documents.
- Strong customer focus and commitment to customer satisfaction through prioritization, quality, efficiency and professionalism.
- Ability to complete assignments with attention to detail and high degree of accuracy.
- Proven ability to perform effectively in a demanding environment with changing workloads.
- Result driven-demonstrate ownership and accountability.
- Identifies bottlenecks and drives improvements.
- Work independently or as part of a team and follow through on assignments with minimal supervision.
- Demonstrate open, clear, concise and professional communication.
- Ability to establish and maintain cooperative working relationships with co-workers and customer.
- Work according to a strict set of procedures within the provided timelines.

Diversity and inclusion

ASML is an Equal Opportunity Employer that values and respects the importance of a diverse and inclusive workforce. It is the policy of the company to recruit, hire, train and promote persons in all job titles without regard to race, color, religion, sex, age, national origin, veteran status, disability, sexual orientation, or gender identity. We recognize that diversity and inclusion is a driving force in the success of our company.

Other information

- Routinely required to sit; walk; talk; hear; use hands to keyboard, finger, handle, and feel; stoop, kneel, crouch, twist, reach, and stretch. Occasionally required to move around the campus.
- Occasionally lift and/or move up to 20 pounds.
- May require travel (specify domestic and/or international) dependent on business needs – specify percentage of travel.
- Specific vision abilities required by this job include close vision, color vision, peripheral vision, depth perception, and ability to adjust focus.
- Can observe and respond to people and situations and interact with others encountered in the course of work.
- Can learn and apply new information or skills.

- Must be able to read and interpret data, information, and documents.
- Strong customer focus and commitment to customer satisfaction through prioritization, quality, efficiency and professionalism.
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- Proven ability to perform effectively in a demanding environment with changing workloads and deadlines.
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- Identifies bottlenecks and drives improvements.
- Work independently or as part of a team and follow through on assignments with minimal supervision.
- Demonstrate open, clear, concise and professional communication.
- Ability to establish and maintain cooperative working relationships with manager, co-workers and customer.
- Work according to a strict set of procedures within the provided timelines.

EOE AA M/F/Veteran/Disability

Need to know more about applying for a job at ASML? Read our frequently asked questions . The current base annual salary range for this role is currently \$134,625-\$224,375. Pay scales are determined by role, level, location and alignment with market data. Individual pay is determined through interviews and an assessment of several factors that that are unique to each candidate, including but not limited to job-related skills, relevant education and experience, certifications, abilities of the candidate and pay relative to other team members. Our recruiters can share more information about our bonus program, benefits and equity during the hiring process.

Oil & Gas Risk Engineer

Bank of America

32,078 evaluaciones

800 Capitol St, Houston, TX 77002

Full-time

crea una cuenta de Indeed antes de continuar a la página web de la empresa.

Postularse en la página de la empresa

Información del empleo

Así es como las especificaciones del empleo se alinean con tu **perfil**.

Tipo de empleo

- **Full-time**

Ubicación

800 Capitol St, Houston, TX 77002

Descripción completa del empleo

Job Description:

At Bank of America, we are guided by a common purpose to help make financial lives better through the power of every connection. Responsible Growth is how we run our company and how we deliver for our clients, teammates, communities and shareholders every day.

One of the keys to driving Responsible Growth is being a great place to work for our teammates around the world. We're devoted to being a diverse and inclusive workplace for everyone. We hire individuals with a broad range of backgrounds and experiences and invest heavily in our teammates and their families by offering competitive benefits to support their physical, emotional, and financial well-being.

Bank of America believes both in the importance of working together and offering flexibility to our employees. We use a multi-faceted approach for flexibility, depending on the various roles in our organization.

Working at Bank of America will give you a great career with opportunities to learn, grow and make an impact, along with the power to make a difference. Join us!

Job Description Summary

Bank of America's engineering staff is responsible for evaluating the client's oil and gas reserves for determining proper loan asset values. Responsibilities include analysis and risk assessment of engineering data for oil and gas exploration & production companies in conjunction with new financing transactions under consideration plus semi-annual borrowing base redeterminations.

Role Responsibilities

Bank of America's engineering staff is responsible for evaluating the client's oil and gas reserves for determining the proper loan asset values for oil and gas exploration & production companies in conjunction with new financing transactions under consideration plus semi-annual borrowing base redeterminations. The engineering position supports the process by performing analysis and risk assessment of client engineering data.

Responsibilities include:

- Acquisition and evaluation of quantitative data to monitor performance of oil and gas assets
- Data input, organization, manipulation, and presentation of oil and gas cash flow projections
- Execution of engineering software (ARIES, PHDWin) to analyze data and prepare forecasts
- Extraction of model cash flow projections into Excel-based credit models to assess asset performance
- Preparation of narrative engineering reports and supporting documentation

- Routine correspondence with internal partners and external clients related to engineering matters
- Preparation of internal reports related to the oil and gas portfolio
- Annual training presentation for credit staff
- Adherence to credit policy and due diligence guidelines

Required and Desired Candidate Qualifications

- BS Petroleum Engineering or equivalent experience
- +10 years of relevant experience with preference for some field experience
- Aries and PHDWin experience is required
- Strong Microsoft Access and Excel skills
- Experience with bank E&P (Exploration & Production) borrowing bases preferred
- Good written and verbal communication skills

Shift:

1st shift (United States of America)

Hours Per Week:

40

Civil Engineer

AECOM

5,358 reviews

Glasgow

Hybrid remote

You must create an Indeed account before continuing to the company website to apply

[Apply now](#)

Location

Glasgow

Full job description

Company Description

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We're one global team driven by our common purpose to deliver a better world. Join us.

Job Description

The AECOM Buildings and Places Scotland business has an opportunity for a suitably experienced Civils Engineer to join the Infrastructure North team in our Glasgow office (may consider Edinburgh based candidates).

The successful Civils Design Engineer will work in a multi-disciplinary office which offers a range of services including Civil & Infrastructure Engineering, Structural Engineering, Geotechnical/Ground Engineering, Mechanical & Electrical Building Services and Building Surveying.

The Infrastructure North team offers a variety of exciting and challenging projects including Developer lead Commercial, Regeneration, Educational and Healthcare projects (both private and public sector), Renewables projects within the Power and Energy Sector and MOD projects within the Defence Sector and you'll be working with an experienced and settled team working across all the sectors.

As Civil Design Engineer you will be responsible for the production of technical designs, and report writing. This will include detailed design, feasibility studies, drainage strategies, schematic designs, masterplan designs, drawings and specifications for infrastructure projects associated with public and privately funded developments.

This is a great opportunity for somebody looking to progress their career to the next level within an established team who have a great track record in the delivery of Civil engineering projects throughout Scotland.

Our Civils department have a strong social outlook, offer excellent training opportunities and encourage career development at all levels and are at the forefront of Engineering technologies and software systems.

Qualifications

Minimum Requirements

- + Experienced in the production of detailed design information, technical reports, drawings, tender documents & specifications.
- + Familiar with Design Standards such as Sewers for Scotland 4, Building Regulations, National Planning Policy Framework, the Specifications for Highways works and other relevant British Infrastructure regulation.
- + Key responsibilities in fronting projects and teams in roads and drainage design, including a sound understanding of utility provision and general civil engineering practise.
- + Working knowledge of all main civil engineering design software packages, incl Micro Drainage / Info Drainage and ground modelling using recognised software (AutoCAD Civils 3D).
- + Application of health and safety in design, preparation of risk assessment and quality reviews.

Preferred Qualifications

- + Degree in Civil/Structural Engineering or equivalent accredited by a professional engineering institution
- + It would be beneficial for the candidate to be working towards Chartered status with the Institution of Civil Engineers,

Additional Information

About AECOM

AECOM is the world's trusted infrastructure consulting firm, delivering professional services throughout the project lifecycle – from advisory, planning, design and engineering to program and construction management. On projects spanning transportation, buildings, water, new energy and the environment, our public- and private-sector clients trust us to solve their most complex challenges. Our teams are driven by a common purpose to deliver a better world through our unrivaled technical and digital expertise, a culture of equity, diversity and inclusion, and a commitment to environmental, social and governance priorities. AECOM is a Fortune 500 firm and its Professional Services business had revenue of \$13.1 billion in fiscal year 2022. See how

we are delivering sustainable legacies for generations to come at aecom.com and @AECOM.

Freedom to Grow in a World of Opportunity

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All your information will be kept confidential according to EEO guidelines.

ReqID: REF24059G

Business Line: B&P - Buildings & Places

Business Group: DCS

Strategic Business Unit: Europe & India

Career Area: Engineering

Work Location Model: Hybrid
Report job

Warehouse Industrial Engineer

Morgan McKinley

38 reviews

Dublin, County Dublin

€50,000–€70,000 a year - Permanent

You must create an Indeed account before continuing to the company website to apply

Apply now

Job details

Here's how the job details align with your [profile](#).

Pay

- **€50,000–€70,000 a year**

Job type

- **Permanent**

Location

Dublin, County Dublin

Full job description

My client, one of the largest food distributors in Ireland are seeking to hire a Warehouse Industrial Engineer to join their Supply Chain team.

The successful candidate will be responsible for analysing this company's supply chain function and in turn creating and implementing new standards and procedures using engineering principles which will optimise this company's entire operation.

The ideal candidate for this position will need a strong engineering background while understanding how their skillset can be used effectively in the continuous improvement of the company's performance standards. Ideally candidates will have excellent project management skills and someone who posses a bachelors degree in Industrial Engineering is highly sought after. An understanding of warehousing and logistics is also essential to be successful in this position.

There will be an expectation for travel across Ireland from time to time in this position also.

Responsibilities include (but not limited to):

- Employ time and motion studies, data analysis, and observation techniques for the acquisition of information and insights.
- Create and enforce productivity targets and performance standards by drawing upon industry benchmarks, best practices, and operational needs.
- Conduct reassessments of existing performance standards. Thoroughly analyze current supply chain processes to pinpoint areas for enhancement in efficiency, cost-effectiveness, and overall performance.
- Collaborate with warehouse management and cross-functional teams to recognize and implement process improvements.
- Devise and execute changes to workflow, layout, and material handling systems to amplify overall operational effectiveness and efficiencies.
- Institute and oversee key performance indicators (KPIs) to gauge and monitor warehouse operations' performance.
- Work closely with IT teams to seamlessly integrate technology solutions into existing operations.
- Apply Lean and Six Sigma principles to instill a culture of continuous improvement initiatives and operational excellence within the warehouse team.
- Utilize data analytics and statistical tools to collect and interpret data regarding production processes, identifying trends, and proposing actionable insights.
- Lead and engage in projects focused on implementing process improvements.
- Develop project plans, coordinate resources, and ensure successful execution.
- Maintain accurate and current documentation of process changes, standard operating procedures, and best practices.

- Create and implement productivity targets aligned with industry benchmarks, best practices, and operational requirements.

Key Requirements:

- Bachelor's degree in industrial engineering or a related field. Master's degree is a plus.
- Proven experience in Industrial Engineering within a manufacturing or supply chain environment, preferably within warehouse or logistics operations.
- Proficiency in using industrial engineering tools and software.
- Strong knowledge of Lean and Six Sigma methodologies.
- Proficient in data analysis and statistical tools.

Morgan McKinley is acting as an Employment Agency and references to pay rates are indicative.

BY APPLYING FOR THIS ROLE YOU ARE AGREEING TO OUR TERMS OF SERVICE WHICH TOGETHER WITH OUR PRIVACY STATEMENT GOVERN YOUR USE OF MORGAN MCKINLEY SERVICES.

TRABAJO PRÁCTICO EXTRA

- **Revisión de estructuras y vocabulario y expresiones comunes en los empleos ofrecidos.**

Solutions Architect

Cohere

San Francisco, CA

Full-time

crea una cuenta de Indeed antes de continuar a la página web de la empresa.

[Postularse en la página de la empresa](#)

Información del empleo

Así es como las especificaciones del empleo se alinean con tu [perfil](#).

Tipo de empleo

- **Full-time**

Ubicación

San Francisco, CA

Descripción completa del empleo

Who are we?

Our mission is to scale intelligence to serve humanity. We're training and deploying frontier models for developers and enterprises who are building AI systems to power magical experiences like content generation, semantic search, RAG, and agents. We believe that our work is instrumental to the widespread adoption of AI.

We obsess over what we build. Each one of us is responsible for contributing to increasing the capabilities of our models and the value they drive for our customers. We like to work hard and move fast to do what's best for our customers.

Cohere is a team of researchers, engineers, designers, and more, who are passionate about their craft. Each person is one of the best in the world at what they do. We believe that a diverse range of perspectives is a requirement for building great products.

Join us on our mission and shape the future!

Why this role?

As a Solutions Architect at Cohere, you will play a significant role in growing the business and have a great deal of autonomy when it comes to technical pre- and post-sales. Your responsibilities will include developing a deep understanding of customer problems, mapping them to Cohere solutions, and working closely with our partners as the trusted technical advisor who owns the technical relationship with our stakeholders. By leveraging your expertise, you will help to increase the adoption of Cohere products, both internally and externally, and will gather valuable insights and feedback from customers to help shape the future of our products.

In this dynamic role, you will need to be both a strategic thinker and a hands-on doer. You will take a hands-on approach to building customer Proof of Concepts that showcase the business value of our platform. As the technical relationship owner, you will collaborate with stakeholders to understand their business objectives and translate those into technical solutions. You will take ownership of the customer narrative, serving as the voice of the customer and acting as a liaison between the customer and our product team. Additionally, you will provide guidance on best practices for using Cohere, identify areas for improvement within the platform, and cultivate technical champions within customer organizations to drive adoption and gather feedback to enhance our products.

A typical day at Cohere might include:

- Leading the technical talk track on customer calls.
- Deep dives on customer problems and Cohere technology.
- Designing novel enterprise solutions with bleeding-edge NLP technology.
- Facilitating customer evaluations and PoC.
- Developing and documenting processes to enable the solutions architect team to scale effectively within Cohere.
- Collaborating with the Product and Engineering teams to ensure our offering match the customers' desires.
- Working closely with our partners to develop a strategy for enabling and accelerating their customers.

This might be for you if you have some of the following:

- 5+ years of customer-facing technical pre/post sales Solutions Architect experience.
- 5+ years working with Sales to drive GTM motions.
- 2+ years architecting or deploying cloud-native solutions.
- A passion for Generative AI, and an understanding of strengths and weaknesses of Generative LLM's.
- Fundamental knowledge of ML, and basic knowledge of AI, NLP, and Large Language Models (LLM).
- Comfortable working with Python and Jupyter Notebooks.
- Comfortable using version control/Git.

- Excellent communication skills - you can toggle seamlessly between presenting to CEOs, and getting in the weeds or white boarding with technical audiences.
- High tolerance for ambiguity.
- You can identify and implement high-impact processes in unstructured environments.

If some of the above doesn't line up perfectly with your experience, we still encourage you to apply! If you consider yourself a thoughtful worker, a lifelong learner, and a kind and playful team member, Cohere is the place for you.

We value and celebrate diversity and strive to create an inclusive work environment for all. We welcome applicants of all kinds and are committed to providing an equal opportunity process. Cohere provides accessibility accommodations during the recruitment process. Should you require any accommodation, please let us know and we will work with you to meet your needs.

Our Perks:

An open and inclusive culture and work environment

Work closely with a team on the cutting edge of AI research

Weekly lunch stipend, in-office lunches & snacks

Full health and dental benefits, including a separate budget to take care of your mental health

100% Parental Leave top-up for 6 months for employees based in Canada, the US, and the UK

Personal enrichment benefits towards arts and culture, fitness and well-being, quality time, and workspace improvement

Remote-flexible, offices in Toronto, Palo Alto, San-Francisco and London and co-working stipend

✈ 6 weeks of vacation

Note: This post is co-authored by both Cohere humans and Cohere technology.

Landscape Architect (LVIA Experience)

AECOM

5,358 reviews

2 Leman Street, London

Hybrid remote

Part-time, Full-time

You must create an Indeed account before continuing to the company website to apply

[Apply now](#)

[Job details](#)

Here's how the job details align with your [profile](#).

Job type

- **Part-time**
- **Full-time**

[Location](#)

2 Leman Street, London

[Full job description](#)

[Company Description](#)

Work with Us. Change the World.

At AECOM, we're delivering a better world. Whether improving your commute, keeping the lights on, providing access to clean water, or transforming skylines, our work helps people and communities thrive. We are the world's trusted infrastructure consulting firm, partnering with clients to solve the world's most complex challenges and build legacies for future generations.

There has never been a better time to be at AECOM. With accelerating infrastructure investment worldwide, our services are in great demand. We invite you to bring your bold ideas and big dreams and become part of a global team of nearly 50,000 planners, designers, engineers, scientists, digital innovators, program and construction managers and other professionals delivering projects that create a positive and tangible impact around the world.

We're one global team driven by our common purpose to deliver a better world. Join us.

Job Description

We are currently seeking a Landscape Architect to join and support the growth of our landscape planning team based across UK and Ireland. As a member of one of the UK and Ireland's largest and most diverse landscape practices, you will take a lead on a range of types and sizes of projects, including renewable energy, major infrastructure, urban regeneration, and environmental enhancement schemes. These projects offer the opportunity to work in multi-disciplinary teams, influencing design from an early stage and shaping the landscape on a broad scale, while supporting progress towards net zero and delivering wider environmental and social benefits.

We will consider applicants with a wide range of experience and a keen and demonstrable experience in landscape planning, including LVIA and TVIA. This is an opportunity to join a team which is growing and with strong links across many disciplines. The successful candidate would be involved in projects throughout the UK and can help deliver our current portfolio of overseas projects.

We are looking for a team player with good technical skills who wishes to be involved in the development of innovative, cost effective and buildable solutions in an environment that is collaborative, stimulating and challenging. The role would suit a self-motivated individual looking to advance their career in a dynamic team.

AECOM's Freedom to Grow programme allows you to take control of your working life and work the hours that suit you. The role is also flexible on location, and we would be interested to hear from applicants seeking either a part time or full-time position. AECOM offers a competitive and flexible package of benefits which can be tailored to suit your lifestyle.

Job Responsibilities:

Applicants should be able to demonstrate an appropriate level of technical expertise in order to be able to carry out the following job/project accountabilities:

- + Undertake site survey work.
- + Produce and/or oversee the production of reports, drawings and other technical documentation using appropriate software, with the necessary level of detail as required at various stages of development from assessments and strategies to mitigation design.
- + Be client facing and respond to client requirements with the support of senior staff.
- + Clear communication, including the ability to contribute to conference calls, meetings and workshops.
- + Have the technical ability, knowledge and competence to provide guidance to teach and develop junior staff.
- + Ability to work collaboratively and iteratively within a multi-disciplinary design team.
- + Be aware of and understand the AECOM procedures, their importance and their application to projects.

Qualifications

Minimum Requirements

- + Chartered Member of the Landscape Institute (CMLI) with up to two years post Chartership experience. Candidates within the last quarter of Pathways to Chartership (P2C) will also be considered.
- + Fluency in English and ability to communicate effectively.
- + Thorough knowledge and understanding of the UK planning system with respect to landscape architecture.
- + Technically competent in preparing LVIA/TVIA and appraisals and evidence-base documents in accordance with best practice.

- + An understanding of project management, including financial control and reporting and programme management and ability to manage own budgets.
- + Proficient in the use of Microsoft Office Suite, AutoCAD and Adobe Creative Cloud software.
- + **Experience of some or all of the following useful:** ArcGIS, AutoCAD Civils 3D, Revit, LSS or ProjectWise.
- + Full UK driving licence.

Additional Information

Preferred Qualifications

- + Landscape Institute accredited Bachelor's degree, Diploma and/or Master's degree.
- + Recently qualified CMLI or within the last quarter of P2C

About AECOM

AECOM is the world's trusted infrastructure consulting firm, delivering professional services throughout the project lifecycle – from advisory, planning, design and engineering to program and construction management. On projects spanning transportation, buildings, water, new energy and the environment, our public- and private-sector clients trust us to solve their most complex challenges. Our teams are driven by a common purpose to deliver a better world through our unrivaled technical and digital expertise, a culture of equity, diversity and inclusion, and a commitment to environmental, social and governance priorities. AECOM is a Fortune 500 firm and its Professional Services business had revenue of \$13.1 billion in fiscal year 2022. See how we are delivering sustainable legacies for generations to come at [aecom.com](https://www.aecom.com) and @AECOM.

Freedom to Grow in a World of Opportunity

You will have the flexibility you need to do your best work with hybrid work options. Whether you're working from an AECOM office, remote location or at a client site, you will be working in a dynamic environment where your integrity, entrepreneurial spirit and pioneering mindset are championed.

You will help us foster a culture of equity, diversity and inclusion – a safe and respectful workplace, where we invite everyone to bring their whole selves to work using their unique talents, backgrounds and expertise to create transformational outcomes for our clients.

AECOM provides a wide array of compensation and benefits programs to meet the diverse needs of our employees and their families. We also provide a robust global well-being program. We're the world's trusted global infrastructure firm, and we're in this together – your growth and success are ours too.

Join us, and you'll get all the benefits of being a part of a global, publicly traded firm –

access to industry-leading technology and thinking and transformational work with big impact and work flexibility. As an Equal Opportunity Employer, we believe in each person's potential, and we'll help you reach yours.

All your information will be kept confidential according to EEO guidelines.

ReqID: J10095183

Business Line: B&P - Buildings & Places

Business Group: DCS

Strategic Business Unit: Europe & India

Career Area: Design

Work Location Model: Hybrid

Software Architect

ALLO Communications

54 evaluaciones

330 South 21st Street, Lincoln, NE

\$120,000 - \$155,000 por año - Full-time

crea una cuenta de Indeed antes de continuar a la página web de la empresa.

Postularse en la página de la empresa

Sueldo

- **\$120,000 - \$155,000 por año**

Tipo de empleo

- **Full-time**

Ubicación

330 South 21st Street, Lincoln, NE

Descripción completa del empleo

At ALLO, we believe people are our biggest asset. Our team brings the ALLO mission to life because as local members of each community, we live, work, play, and volunteer right here with you. We're passionate about being involved and contributing to the success and progress of each of our GIG Communities.

We pursue these passions because ALLO leaders have created a workplace where folks are valued, ideas are heard, and leaders and teammates show up for each other at work and in life.

We are looking for a Software Architect who can work collaboratively within the System Integration Group (SIG) and across Business Operational areas to help design and deliver pragmatic solutions based on business value and SIG technology direction. This role provides technical leadership to agile teams and is also expected to pull work from the product backlog periodically.

RESPONSIBILITIES:

- Understands and demonstrates current job family technical skill expectations.
- Engages with Agile teams to deliver high quality, working software solutions in alignment with team commitments.
- Leads and facilitates application design, implementation of architectural patterns, and consistent development practices on projects and within product teams.
- Understands the business domain of products supported.

- Ensures technology architecture and development principles are aligned with SIG technology direction.
- Knowledgeable of all existing services, components, and technologies to ensure maximum technology reuse.
- Independently identifies and pursues opportunities to improve software architecture across the enterprise.
- Explores and pursues technical skills outside of current job family.
- Actively seeks to remain technically current and increase expertise and abilities.
- Understands and exhibits skills to protect data, systems and networks and maintains secure, reliable, redundant, and accessible systems.
- Strives to align personal passion and career desires with opportunities and company needs.

Colorado Residents: typical pay range for this role will be from \$120,000 - \$155,000 per year, base pay may vary based on experience.

EDUCATION:

- Bachelor's degree or Master's degree in Computer Science, Engineering, related discipline or equivalent experience

EXPERIENCE:

- Minimum 8 years of experience in software development with a strong expertise in at least one key competency.
- 2 to 3 years of experience as a technical or development leader with a demonstrated ability to deliver medium to large scale technology solutions.

SKILLS / KNOWLEDGE / ABILITIES:

- Strong technical competency in the following:
 - Full Stack Development expertise:
 - Python
 - JavaScript
 - React (React Hooks)
 - TypeScript
 - GraphQL
 - Deep understanding of AWS and its services (storage, database, security, and networking services)
 - Solid understanding of web technologies
 - Experience with GitLab or similar system utilizing CI/CD Pipelines
 - Working knowledge of SQL and NoSQL databases and ability to work with complex database schema or access patterns
 - REST APIs
 - Service Based Architecture
 - Secure Development Practices
- Nice to have
 - Experience designing, building, and maintaining a Data Lake
 - Experience integrating automated testing tools
- Understanding of best practices, standards and methods to integrate applications within the organization and with external partners.
- In-depth knowledge of the full software development lifecycle; with exposure to agile or iterative approaches to delivery preferred.
- Strong verbal and written communication skill; with the ability to communicate at all levels of the organization.
- Ability to quickly learn new technologies and business functions.
- Strong analytical skills to determine effective approaches to business solutions.

- Self-directed with the ability to motivate, inspire, and lead team members on an application solution.
- Demonstrated effective performance in a team-oriented environment.

REQUIREMENTS:

- Remain stationary for extended periods
- Ability to communicate information
- Ability to operate a computer
- Possess/maintain a valid driver's license
- 10% travel requirement

People are our passion. At ALLO, we don't treat you like a number. You're a human being.

Get ready to plug into the perks at ALLO:

- Free ALLO Service: We'll pick up the tab on your ALLO fiber internet, TV, and phone bill. Seriously!
- Retirement Plan: The fiber future isn't the only one we care about. We match your 401(k) savings up to 5%.
- Health and Wellness: Participate in quarterly wellness challenges, and we'll deposit extra cash into your checking or health savings accounts.
- Benefits: Our benefits include medical, vision, and dental with low employee costs. Not to mention generous Earned Time Off (ETO) program.
- Sponsorships: Are you passionate about a local fundraiser or philanthropy? We strive to give back to what matters most to our communities.
- Tuition Assistance: Have a thirst for knowledge? We like that, which is why we're proud to offer assistance with the cost of your tuition.

ALLO is an Equal Opportunity Employer. We are committed to providing opportunities to all applicants and associates without regard to race, color, religion, sex, pregnancy, national origin, age, disability, marital status, sexual orientation, gender identity, military and veteran status, and any other characteristic protected by applicable law.

ALLO believes that diversity and inclusion within our team is critical to our success as a company. We seek to recruit, develop, and retain the most talented people.

Qualified individuals with disabilities who require reasonable accommodations in order to apply may contact Recruiting at recruiting@allofiber.com

ALLO is a Drug Free and Tobacco Free Workplace.

Sr mechatronics engineer

ASML

407 evaluaciones

San Jose, CA

Full-time

crea una cuenta de Indeed antes de continuar a la página web de la empresa.

Postularse en la página de la empresa

Información del empleo

Así es como las especificaciones del empleo se alinean con tu **perfil**.

Tipo de empleo

- **Full-time**

Ubicación

San Jose, CA

Descripción completa del empleo

Location

San Jose, US

Team

Design Engineering and Architecture

Work experience

4-9 years

Educational background

Physics, Mechanical Engineering, Mechatronics

Technical field

Mechatronics

Travel

10%

Programming languages

C++, Python

Workplace type

On-Site

Fulltime/parttime

Full time

Job ID: J-00291843

Introduction to the job

The Mechatronics Engineer position is set to play an important role in the wafer flow of our SEM (Scanning Electron Microscope) systems, including wafer clamping and wafer positioning in vacuum as well as active vibration isolation and overall system dynamics. In addition, overall system behavior must be characterized in order to optimize overall performance and better understand the multi-physics interactions that affect these extremely sensitive systems.

This position requires access to controlled technology, as defined in the Export Administration Regulations (15 C.F.R. § 730, et seq.). Qualified candidates must be legally authorized to access such controlled technology prior to beginning work. Business demands may require ASML to proceed with candidates who are immediately eligible to access controlled technology.

Role and responsibilities

Operate in an extremely requirements driven environment where specifications need to be well established, design details and tradeoffs need to be accurately captured and objective testing needs to confirm adherence.

Firm understanding of motion control systems, closed loop feedback operation, servo loop tuning, actuation systems and feedback devices.

A fundamental understanding of multi-physics systems including kinematics, statics, dynamics, vibration, electro-magnetics and thermodynamics in various pressure environments.

Ability to device experiments using various sensing modalities, performing data processing and analysis and constructing conclusive data analysis and presentation.

Inglés Técnico Prof. Gladys Barsotti – Prof. Corina G. Cepparo – Prof. Stella Pellicer – Prof. Lilia Diéguez

Collaborate within the team, as well as with external teams in a matrix style engineering organization.

Performing hands-on testing in non-clean room and clean room labs on either complete systems or sub-systems and sub-modules.

Working with external and internal suppliers of the components and modules that make up wafer flow.

Manage the overall hardware structure (BOM) of the modules that provide wafer flow.

Education and experience

MS degree or higher in a mechatronics and/or multi-physics related field.

Minimum five (7) years of relevant work related experience in motion control centric capital equipment.

Experience with modeling and analysis engineering software such as Matlab/Simulink, Ansys/Comsol etc.

Experience with high precision and mission critical capital equipment in high volume manufacturing (semiconductor preferred).

Both hands-on lab experience as well theoretical analysis of design and troubleshooting problems.

Experience with technical writing of requirements, design specifications and test plans.

Can multi-task to achieve success.

Can make technical decisions based on a good understanding of design scope, timeline and cost.

Skills

- Can observe and respond to people and situations and interact with others encountered in the course of work.
- Can learn and apply new information or skills.
- Must be able to read and interpret data, information, and documents.
- Strong customer focus and commitment to customer satisfaction through prioritization, quality, efficiency and professionalism.
- Ability to complete assignments with attention to detail and high degree of accuracy.
- Proven ability to perform effectively in a demanding environment with changing workloads.
- Result driven-demonstrate ownership and accountability.
- Identifies bottlenecks and drives improvements.
- Work independently or as part of a team and follow through on assignments with minimal supervision.
- Demonstrate open, clear, concise and professional communication.
- Ability to establish and maintain cooperative working relationships with co-workers and customer.
- Work according to a strict set of procedures within the provided timelines.

Diversity and inclusion

ASML is an Equal Opportunity Employer that values and respects the importance of a diverse and inclusive workforce. It is the policy of the company to recruit, hire, train and promote persons in all job titles without regard to race, color, religion, sex, age, national origin, veteran status, disability, sexual orientation, or gender identity. We recognize that diversity and inclusion is a driving force in the success of our company.

Other information

- Routinely required to sit; walk; talk; hear; use hands to keyboard, finger, handle, and feel; stoop, kneel, crouch, twist, reach, and stretch. Occasionally required to move around the campus.
- Occasionally lift and/or move up to 20 pounds.
- May require travel (specify domestic and/or international) dependent on business needs – specify percentage of travel.
- Specific vision abilities required by this job include close vision, color vision, peripheral vision, depth perception, and ability to adjust focus.
- Can observe and respond to people and situations and interact with others encountered in the course of work.
- Can learn and apply new information or skills.

- Must be able to read and interpret data, information, and documents.
- Strong customer focus and commitment to customer satisfaction through prioritization, quality, efficiency and professionalism.
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- Proven ability to perform effectively in a demanding environment with changing workloads and deadlines.
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- Identifies bottlenecks and drives improvements.
- Work independently or as part of a team and follow through on assignments with minimal supervision.
- Demonstrate open, clear, concise and professional communication.
- Ability to establish and maintain cooperative working relationships with manager, co-workers and customer.
- Work according to a strict set of procedures within the provided timelines.

EOE AA M/F/Veteran/Disability

Need to know more about applying for a job at ASML? Read our frequently asked questions . The current base annual salary range for this role is currently \$134,625-\$224,375. Pay scales are determined by role, level, location and alignment with market data. Individual pay is determined through interviews and an assessment of several factors that that are unique to each candidate, including but not limited to job-related skills, relevant education and experience, certifications, abilities of the candidate and pay relative to other team members. Our recruiters can share more information about our bonus program, benefits and equity during the hiring process.

Oil & Gas Risk Engineer

Bank of America

32,078 evaluaciones

800 Capitol St, Houston, TX 77002

Full-time

crea una cuenta de Indeed antes de continuar a la página web de la empresa.

Postularse en la página de la empresa

Información del empleo

Así es como las especificaciones del empleo se alinean con tu **perfil**.

Tipo de empleo

- **Full-time**

Ubicación

800 Capitol St, Houston, TX 77002

Descripción completa del empleo

Job Description:

At Bank of America, we are guided by a common purpose to help make financial lives better through the power of every connection. Responsible Growth is how we run our company and how we deliver for our clients, teammates, communities and shareholders every day.

One of the keys to driving Responsible Growth is being a great place to work for our teammates around the world. We're devoted to being a diverse and inclusive workplace for everyone. We hire individuals with a broad range of backgrounds and experiences and invest heavily in our teammates and their families by offering competitive benefits to support their physical, emotional, and financial well-being.

Bank of America believes both in the importance of working together and offering flexibility to our employees. We use a multi-faceted approach for flexibility, depending on the various roles in our organization.

Working at Bank of America will give you a great career with opportunities to learn, grow and make an impact, along with the power to make a difference. Join us!

Job Description Summary

Bank of America's engineering staff is responsible for evaluating the client's oil and gas reserves for determining proper loan asset values. Responsibilities include analysis and risk assessment of engineering data for oil and gas exploration & production companies in conjunction with new financing transactions under consideration plus semi-annual borrowing base redeterminations.

Role Responsibilities

Bank of America's engineering staff is responsible for evaluating the client's oil and gas reserves for determining the proper loan asset values for oil and gas exploration & production companies in conjunction with new financing transactions under consideration plus semi-annual borrowing base redeterminations. The engineering position supports the process by performing analysis and risk assessment of client engineering data.

Responsibilities include:

- Acquisition and evaluation of quantitative data to monitor performance of oil and gas assets
- Data input, organization, manipulation, and presentation of oil and gas cash flow projections
- Execution of engineering software (ARIES, PHDWin) to analyze data and prepare forecasts
- Extraction of model cash flow projections into Excel-based credit models to assess asset performance
- Preparation of narrative engineering reports and supporting documentation

- Routine correspondence with internal partners and external clients related to engineering matters
- Preparation of internal reports related to the oil and gas portfolio
- Annual training presentation for credit staff
- Adherence to credit policy and due diligence guidelines

Required and Desired Candidate Qualifications

- BS Petroleum Engineering or equivalent experience
- +10 years of relevant experience with preference for some field experience
- Aries and PHDWin experience is required
- Strong Microsoft Access and Excel skills
- Experience with bank E&P (Exploration & Production) borrowing bases preferred
- Good written and verbal communication skills

Shift:

1st shift (United States of America)

Hours Per Week:

40

Civil Engineer

AECOM

5,358 reviews

Glasgow

Hybrid remote

You must create an Indeed account before continuing to the company website to apply

[Apply now](#)

Location

Glasgow

Full job description

Company Description

Work with Us. Change the World.

At AECOM, we're delivering a better world. Whether improving your commute, keeping the lights on, providing access to clean water, or transforming skylines, our work helps people and communities thrive. We are the world's trusted infrastructure consulting firm, partnering with clients to solve the world's most complex challenges and build legacies for future generations.

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We're one global team driven by our common purpose to deliver a better world. Join us.

Job Description

The AECOM Buildings and Places Scotland business has an opportunity for a suitably experienced Civils Engineer to join the Infrastructure North team in our Glasgow office (may consider Edinburgh based candidates).

The successful Civils Design Engineer will work in a multi-disciplinary office which offers a range of services including Civil & Infrastructure Engineering, Structural Engineering, Geotechnical/Ground Engineering, Mechanical & Electrical Building Services and Building Surveying.

The Infrastructure North team offers a variety of exciting and challenging projects including Developer lead Commercial, Regeneration, Educational and Healthcare projects (both private and public sector), Renewables projects within the Power and Energy Sector and MOD projects within the Defence Sector and you'll be working with an experienced and settled team working across all the sectors.

As Civil Design Engineer you will be responsible for the production of technical designs, and report writing. This will include detailed design, feasibility studies, drainage strategies, schematic designs, masterplan designs, drawings and specifications for infrastructure projects associated with public and privately funded developments.

This is a great opportunity for somebody looking to progress their career to the next level within an established team who have a great track record in the delivery of Civil engineering projects throughout Scotland.

Our Civils department have a strong social outlook, offer excellent training opportunities and encourage career development at all levels and are at the forefront of Engineering technologies and software systems.

Qualifications

Minimum Requirements

- + Experienced in the production of detailed design information, technical reports, drawings, tender documents & specifications.
- + Familiar with Design Standards such as Sewers for Scotland 4, Building Regulations, National Planning Policy Framework, the Specifications for Highways works and other relevant British Infrastructure regulation.
- + Key responsibilities in fronting projects and teams in roads and drainage design, including a sound understanding of utility provision and general civil engineering practise.
- + Working knowledge of all main civil engineering design software packages, incl Micro Drainage / Info Drainage and ground modelling using recognised software (AutoCAD Civils 3D).
- + Application of health and safety in design, preparation of risk assessment and quality reviews.

Preferred Qualifications

- + Degree in Civil/Structural Engineering or equivalent accredited by a professional engineering institution
- + It would be beneficial for the candidate to be working towards Chartered status with the Institution of Civil Engineers,

Additional Information

About AECOM

AECOM is the world's trusted infrastructure consulting firm, delivering professional services throughout the project lifecycle – from advisory, planning, design and engineering to program and construction management. On projects spanning transportation, buildings, water, new energy and the environment, our public- and private-sector clients trust us to solve their most complex challenges. Our teams are driven by a common purpose to deliver a better world through our unrivaled technical and digital expertise, a culture of equity, diversity and inclusion, and a commitment to environmental, social and governance priorities. AECOM is a Fortune 500 firm and its Professional Services business had revenue of \$13.1 billion in fiscal year 2022. See how

we are delivering sustainable legacies for generations to come at aecom.com and @AECOM.

Freedom to Grow in a World of Opportunity

You will have the flexibility you need to do your best work with hybrid work options. Whether you're working from an AECOM office, remote location or at a client site, you will be working in a dynamic environment where your integrity, entrepreneurial spirit and pioneering mindset are championed.

You will help us foster a culture of equity, diversity and inclusion – a safe and respectful workplace, where we invite everyone to bring their whole selves to work using their unique talents, backgrounds and expertise to create transformational outcomes for our clients.

AECOM provides a wide array of compensation and benefits programs to meet the diverse needs of our employees and their families. We also provide a robust global well-being program. We're the world's trusted global infrastructure firm, and we're in this together – your growth and success are ours too.

Join us, and you'll get all the benefits of being a part of a global, publicly traded firm – access to industry-leading technology and thinking and transformational work with big impact and work flexibility. As an Equal Opportunity Employer, we believe in each person's potential, and we'll help you reach yours.

All your information will be kept confidential according to EEO guidelines.

ReqID: REF24059G

Business Line: B&P - Buildings & Places

Business Group: DCS

Strategic Business Unit: Europe & India

Career Area: Engineering

Work Location Model: Hybrid
Report job

Warehouse Industrial Engineer

Morgan McKinley

38 reviews

Dublin, County Dublin

€50,000–€70,000 a year - Permanent

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Job details

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Pay

- **€50,000–€70,000 a year**

Job type

- **Permanent**

Location

Dublin, County Dublin

Full job description

My client, one of the largest food distributors in Ireland are seeking to hire a Warehouse Industrial Engineer to join their Supply Chain team.

The successful candidate will be responsible for analysing this company's supply chain function and in turn creating and implementing new standards and procedures using engineering principles which will optimise this company's entire operation.

The ideal candidate for this position will need a strong engineering background while understanding how their skillset can be used effectively in the continuous improvement of the company's performance standards. Ideally candidates will have excellent project management skills and someone who posses a bachelors degree in Industrial Engineering is highly sought after. An understanding of warehousing and logistics is also essential to be successful in this position.

There will be an expectation for travel across Ireland from time to time in this position also.

Responsibilities include (but not limited to):

- Employ time and motion studies, data analysis, and observation techniques for the acquisition of information and insights.
- Create and enforce productivity targets and performance standards by drawing upon industry benchmarks, best practices, and operational needs.
- Conduct reassessments of existing performance standards. Thoroughly analyze current supply chain processes to pinpoint areas for enhancement in efficiency, cost-effectiveness, and overall performance.
- Collaborate with warehouse management and cross-functional teams to recognize and implement process improvements.
- Devise and execute changes to workflow, layout, and material handling systems to amplify overall operational effectiveness and efficiencies.
- Institute and oversee key performance indicators (KPIs) to gauge and monitor warehouse operations' performance.
- Work closely with IT teams to seamlessly integrate technology solutions into existing operations.
- Apply Lean and Six Sigma principles to instill a culture of continuous improvement initiatives and operational excellence within the warehouse team.
- Utilize data analytics and statistical tools to collect and interpret data regarding production processes, identifying trends, and proposing actionable insights.
- Lead and engage in projects focused on implementing process improvements.
- Develop project plans, coordinate resources, and ensure successful execution.
- Maintain accurate and current documentation of process changes, standard operating procedures, and best practices.

- Create and implement productivity targets aligned with industry benchmarks, best practices, and operational requirements.

Key Requirements:

- Bachelor's degree in industrial engineering or a related field. Master's degree is a plus.
- Proven experience in Industrial Engineering within a manufacturing or supply chain environment, preferably within warehouse or logistics operations.
- Proficiency in using industrial engineering tools and software.
- Strong knowledge of Lean and Six Sigma methodologies.
- Proficient in data analysis and statistical tools.

Morgan McKinley is acting as an Employment Agency and references to pay rates are indicative.

BY APPLYING FOR THIS ROLE YOU ARE AGREEING TO OUR TERMS OF SERVICE WHICH TOGETHER WITH OUR PRIVACY STATEMENT GOVERN YOUR USE OF MORGAN MCKINLEY SERVICES.