



## 2025 Internship Topics

The deadline for receipt of applications is **30 April 2025**. Acknowledgements will only be sent to short-listed candidates. The selection process will take place on an on-going basis and the topics will be removed as soon as candidates are selected.

Dept.	Topic	Objectives	Reference Number
Data Services Department	OPEC Data Hub Expansion - Data Visualization and Software Development	<p><b>General Description:</b> <b>Duration: 3 months</b></p> <p>This internship offers an exciting opportunity to contribute to the expansion of the OPEC Data Hub Project, specifically focusing on software development, data analysis, and visualization. The intern will work closely with the Statistics Team to implement innovative data-driven solutions.</p> <p><i>Key Responsibilities:</i></p> <ul style="list-style-type: none"><li>• Statistical Analysis: Apply statistical methods to analyze various datasets, providing valuable insights and analysis.</li><li>• Data Visualization: Develop effective data visualization techniques to present complex data in a clear and insightful manner.</li><li>• Software Development: Contribute to the enhancement and expansion of the OPEC Data Hub Project by supporting software development efforts.</li><li>• Collaboration: Work closely with the Statistics team to ensure integration of data analysis and software development.</li></ul> <p><i>Candidate Profile:</i></p> <ul style="list-style-type: none"><li>• We are looking for a candidate with a passion for data, statistical analysis, IT development, data science, and the oil market. The ideal candidate will demonstrate strong problem-solving abilities, creativity, and a keen interest in driving innovative data solutions.</li></ul> <p><i>Educational and Technical Requirements:</i></p> <ul style="list-style-type: none"><li>• Education: At least 3 years of higher education, preferably in Statistics, Computer Science, Data Science, or a related field.</li><li>• Technical Skills: Proficiency in programming languages and tools such as:<ul style="list-style-type: none"><li>• JavaScript</li></ul></li></ul>	IP-DSD-1

		<ul style="list-style-type: none"> <li>• PHP</li> <li>• MySQL</li> <li>• HTML</li> <li>• Excel with VBA</li> </ul>	
		<ul style="list-style-type: none"> <li>• Knowledge: Strong interest in data science, software design, data mining, and a deep understanding of information architecture.</li> </ul> <p><i>Soft Skills:</i></p> <ul style="list-style-type: none"> <li>• Strong communication skills (both verbal and written)</li> <li>• Analytical mindset with an innovative approach to problem-solving</li> <li>• Perseverance in the face of challenges</li> <li>• Professional demeanor with a focus on teamwork and collaboration</li> <li>• Excellent presentation skills</li> <li>• Language Proficiency: Outstanding command of English, both in technical writing and speaking.</li> </ul>	
<b>Data Services Department</b>	<b>Assessing Data Quality – Country Availability, as well as well as Flow and Product Coverages in the JODI oil and gas world databases.</b>	<p><b>General Description:</b>  <b>Duration: 3 months (extendable)</b></p> <ul style="list-style-type: none"> <li>• The aim of this study is to statistically assess the quality of the JODI oil and natural gas world databases with a particular focus on country, as well as flow and product coverage.</li> <li>• The analysis will further address estimation of an average reported data time lag by flow, product and country.</li> <li>• A successful candidate for this position should have a genuine innovative interest in oil and natural data and statistical related subjects, and the energy market in general.</li> <li>• The candidate would ideally further demonstrate data manipulation skills.</li> </ul> <p>The study will rely heavily on the utilization of MS Office, Excel, PowerPoint and Word.</p>	<b>IP-DSD-2</b>

<b>Data Services Department</b>	<b>Archive Assistant</b>	<p><b>General Description:</b>  <b>Duration: 3 months (extendable)</b></p> <ul style="list-style-type: none"> <li>• Carries out digital and physical archiving tasks within the Department;</li> <li>• Facilitates acquisition, preservation, arrangement, description, and access to digital materials;</li> <li>• Implements relevant information management policies and classification systems;</li> <li>• Implements relevant mechanisms to comply with OPEC information security policies;</li> <li>• Advises, supports and collaborates with DSD staff to ensure compliance with existing information management policies;</li> <li>• Collaborates with DSD staff to ensure that OPEC’s information digitalization is conducted properly;</li> <li>• Manages and maintains OPEC information digitalization and management tools such as scanning applications, document management systems and automated document archiving.</li> </ul>	<b>IP-DSD-3</b>
<b>Environmental Matters Department</b>	<b>Addressing plastics pollution: assessing the development and impact of an international legally binding instrument</b>	<p><b>General Description:</b>  <b>Duration: 3 months</b></p> <ul style="list-style-type: none"> <li>• OPEC’s World Oil Outlook (WOO) projects future oil demand for petrochemicals, which is currently one of the largest contributors to oil demand growth. The aim of this work is to delve deeper into one major petrochemical product, plastics.</li> <li>• Provide a concise overview of global plastic supply and demand, reviewing existing data and case studies;</li> <li>• Examine policy measures such as the extended producer responsibility, circular economy approaches, and national action plans, and assess technological innovations in recycling, bioplastics, and waste management;</li> <li>• Track progress of work under the Intergovernmental Negotiating Committee (INC) tasked with drafting the instrument;</li> <li>• Review potential changes to future supply and demand due to environmental concerns and new regulations, including the UN Environment Programme’s efforts to develop an international legally binding instrument on plastic pollution;</li> <li>• Present strategies for fostering collaboration across countries, including potential solutions in the petrochemical industry;</li> <li>• Carry out any other tasks assigned by the relevant supervisor as pertain to the internship project as well as the intern’s background and qualifications.</li> <li>•</li> </ul>	<b>IP-EMD-1</b>

Energy Studies Department	Road transportation in India	<b>General Description:</b> <b>Duration: 3 months</b> <ul style="list-style-type: none"> <li>High population growth rates combined with fast economic growth and relatively low car ownership in India provide a great potential for booming sales of both passenger cars and commercial vehicles in this country. Indeed, in terms of new sales, India became the third largest automobile market globally in 2023. Moreover, the automotive sector is also a major contributor to India's economy, accounting for 7.1 percent of its GDP and providing significant employment.</li> </ul>	IP-ESD-1
		<ul style="list-style-type: none"> <li>At the same time, there are some specifics in the India's fleet composition, in particular the relatively high share of two- and three-wheelers as well as commercial vehicles compared to passenger cars. There is also still relatively low penetration of electric vehicles in the new vehicle sales. All these parameters, however, will likely change in the years to come on the back of fast developing road infrastructure in the country and emerging large middle class with a strong push for higher car ownership.</li> <li>The objective of this internship will be to provide an assessment of the evolving prospect for new vehicle sales in India, in terms of both, number of vehicles and sales composition (two-wheelers, three-wheelers, ICE passenger cars, electric passenger cars, LPG passenger cars, commercial vehicles, buses etc.). This assessment will serve as a basis for estimates of future oil demand in the road transportation sector in India. It is expected that the results of the analysis and key conclusions will be summarized in related report and presentation.</li> </ul>	

Energy Studies Department	Recent developments in CCS, CCUS and other Negative Emission Technologies (NETs), and their implication on the future energy mix	<p><b>General description</b> Duration: 3 months</p> <ul style="list-style-type: none"> <li>• Carbon Capture and Storage (CCS), Carbon Capture, Utilization and Storage (CCUS), and other Negative Emission Technologies (NETs) are of critical importance due to their potential to address the dual challenges of the energy accessibility/security/affordability and CO2 emissions reduction.</li> <li>• The objective of this study is to provide an in-depth overview of recent developments in the NETs, exploring categories such as bioenergy with carbon capture and storage (BECCS), direct air capture (DAC), and soil carbon sequestration, among others. It will explore approaches like Circular Carbon Economy (CCE), which involves a wide range of these technologies. It will examine technological advances, enabling policies, and economic frameworks driving NETs innovations. The study also aims to assess the role of NETs in decarbonizing the energy sector; but also other sectors such as steel, cement, and chemical industries; their implications for the future energy mix, and their contribution to global climate goals.</li> <li>• By providing long-term projections on the capacity and cost of these technologies, the research will analyze their large-scale feasibility and integration in various sectors. In addition, it will identify opportunities and challenges related to their large-scale deployment, taking into account aspects such as social acceptability, economic viability and the need for an appropriate regulatory framework, in order to provide actionable recommendations to guide policy decisions and investments.</li> </ul>	IP-ESD-2
Information Technology Department/ Application Section	Implementation of OPEC new website	<p><b>General Description</b> Duration: 3 months</p> <ul style="list-style-type: none"> <li>• Assisting in the implementation of a new webpage, migrating content to the new platform, and helping with website maintenance and updates.</li> <li>• Create clear end-user documentation for content managers.</li> <li>• Collaborating with the team, ensuring a smooth transition and usability of the new CMS platform.</li> <li>• Provides valuable hands-on experience in web development.</li> <li>• Content management and technical documentation.</li> </ul> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>• Basic knowledge of web development (HTML, CSS, CMS experience is a plus).</li> <li>• Strong written communication skills for documentation.</li> <li>• Attention to detail and ability to work independently.</li> </ul> <p>Interest in digital platforms, content management, and technical writing.</p>	IP-ITD-1

<b>Information Technology Department/ Services Section</b>	<b>ITD Internal Communication Campaign</b>	<p><b>General Description</b>  <b>Duration: 3 months</b></p> <ul style="list-style-type: none"> <li>• Assist in the design and implementation of the IT Communications platform.</li> <li>• Create of newsletter, pamphlets, video material related to IT knowledge.</li> <li>• Participation on the creation of Standard Operation Procedures (SOP) for the users and for the daily operation of the IT Services section.</li> <li>• Carries out any other tasks assigned by the relevant supervisors as pertaining to the internship project as well as the intern’s background and qualifications.</li> </ul> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>• Students pursuing bachelor’s or master’s degree in corporate communications, communications, public relations, marketing, or a related field.</li> <li>• Strong knowledge of written English.</li> <li>• Knowledge in graphic design and video Shorts production.</li> </ul>	<b>IP-ITD-2</b>
<b>Information Technology Department/ Services Section</b>	<b>Enhancement of the Information Technology Service Management &amp; Configuration Management Database</b>	<p><b>General Description</b>  <b>Duration: 3 months</b></p> <ul style="list-style-type: none"> <li>• Participation in the creation of the ITD service catalogue.</li> <li>• Review and update the ITSM tool categorization and service request forms templates.</li> <li>• Collaborate in the ITD CMDB update, creating assets and relations for proper view and awareness of the impact and reach of the related devices and applications in the. organization.</li> <li>• Carries out any other tasks assigned by the relevant supervisors as pertaining to the internship project as well as the intern’s background and qualifications.</li> </ul> <p>Requirements</p> <ul style="list-style-type: none"> <li>• Students pursuing bachelor’s or master’s degree in information technology, Computer Science, Information System, or a related field.</li> <li>• Strong knowledge of written English.</li> <li>• Knowledge in graphic design and video Shorts production.</li> </ul>	<b>IP-ITD-3</b>

<b>Petroleum Studies Department</b>	<b>Technological Evolution of the US Shale Oil industry and future expectations</b>	<b>General Description</b> <b>Duration: 2 months</b> <ul style="list-style-type: none"> <li>• Technology advances have made it possible for US shale oil companies to reverse years of productivity declines. The objective of this study is to gain an overview of the US shale oil industry in terms of upstream performance. Technological breakthroughs and key innovations such as hydraulic fracturing and horizontal drilling are key elements. However, advancement, evolution, productivity enhancements and integration with other techniques need to be further analyzed. The study will focus on different basins and different companies targeting both drilling and completion aspects.</li> <li>• Real-time monitoring of fracture networks using micro-seismic technology to capture and describe the development of fracture networks will be researched.</li> <li>• Production costs, trends and other economic influencing factors should be considered.</li> <li>• The future of shale oil technological development could also bring several advancements in areas like advanced fracturing, EOR techniques, digital transformation, and data analytics to enhance efficiency and improve economic viability.</li> <li>• The scope of the study would be limited to US light tight oil developments.</li> </ul>	<b>IP-PSD-1</b>
<b>Petroleum Studies Department</b>	<b>Data Mining for Modeling Research Assistant Internship</b>	<b>General Description</b> <b>Duration: 2 months</b> <ul style="list-style-type: none"> <li>• Assist in collecting, cleaning, and structuring data relevant to crude oil market dynamics in preparation for modeling</li> <li>• Compile, and refine text contributions for PSD's reports, ensuring clarity and consistency across different sections.</li> <li>• Cross-check data, graphs, and visualizations to validate accuracy and alignment with report findings.</li> <li>• Support the development of graphs and charts</li> <li>• Ensure that all visualizations are consistent with OPEC's standards and accurately represent the underlying data.</li> <li>• Assist in gathering and preparing datasets for use in economic and market models related to crude oil demand, supply, and price elasticity.</li> <li>• Work closely with analysts and researchers to identify gaps in data and refine input variables.</li> <li>• Review draft reports and provide feedback or corrections to ensure quality and precision.</li> </ul>	<b>IP-PSD-2</b>

<p><b>Public Relations and Information Department/Information Center</b></p>	<p><b>Digitization Project – Scanning of publications</b></p>	<p><b>General Description</b>  <b>Duration: 6 months (Extendable)</b></p> <ul style="list-style-type: none"> <li>• Work together with IC staff members to identify and select materials for scanning based on priority and relevance.</li> <li>• Ensure that selected materials are in suitable condition for scanning and are within the scope of the scanning project.</li> <li>• Operate scanning equipment efficiently and safely.</li> <li>• Adjust scanner settings as needed to achieve optimal results for different types of materials (e.g., books, photographs, manuscripts).</li> <li>• Review scanned images to ensure clarity, resolution, and overall quality meet established standards.</li> <li>• Identify and rectify any scanning errors, such as missing pages, skewed images, or poor resolution.</li> <li>• Follow a systematic approach to naming and organizing scanned files.</li> <li>• Enter relevant metadata for each scanned item, including title, author, publication date, and any other pertinent information.</li> <li>• Maintain consistency and accuracy in metadata entry across all scanned materials.</li> <li>• Troubleshoot technical issues related to the scanning process.</li> <li>• Keep detailed records of the scanning process, including dates, materials scanned, and any issues encountered.</li> <li>• Document any specific requirements or considerations for certain materials.</li> <li>• Adhere to protocols for handling sensitive materials, ensuring confidentiality and security are maintained throughout the scanning process.</li> </ul>	<p><b>IP-PRID-1</b></p>
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<p><b>Public Relations and Information Department/Information Center</b></p>	<p><b>Digitization Project Copyright Clearance</b></p>	<p><b>General Description</b></p> <p><b>Duration: 3 months (Extendable)</b></p> <ul style="list-style-type: none"> <li>• Work together with IC Staff members to identify a list of publications to be checked for copyright</li> <li>• Confirm and gather accurate information about each selected publication, including author names, publication dates, and editions.</li> <li>• Learn how to use copyright databases and other relevant resources to verify the copyright status of each publication.</li> <li>• Determine if any of the selected publications have entered the public domain and are no longer under copyright protection.</li> <li>• Create organized reports summarizing the copyright status of each selected publication, indicating whether they are in the public domain or still under copyright.</li> <li>• Note any specific permissions or restrictions associated with copyrighted materials, such as limitations on reproduction or distribution.</li> <li>• Collaborate with the IC Staff members to ensure that digitized materials comply with copyright laws and restrictions.</li> <li>• In cases where copyright status is unclear, seek permission from copyright holders for the use of materials.</li> </ul>	<p><b>IP-PRID-2</b></p>
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<b>Public Relations and Information Department</b>	<b>Audio-visual Support</b>	<b>General Description</b> <b>Duration: 3 months</b> <ul style="list-style-type: none"> <li>• Support the audio-visual team in photography and video recordings of activities and events at the Secretariat.</li> <li>• Assist in digital archiving audio-visual materials.</li> <li>• Assist in providing audio-visuals materials from the archive when needed.</li> <li>• Provide support for timely production of highlight videos.</li> <li>• Support the audio-visual team in livestreaming of events.</li> <li>• Assist in any other tasks as assigned by the relevant supervisor.</li> </ul> <b>Requirements:</b> <ul style="list-style-type: none"> <li>• Familiarity with modern software and audio-visual production systems.</li> <li>• Excellent time management and communication skills.</li> <li>• Proficiency in English.</li> </ul>	<b>IP-PRID-3</b>
<b>Public Relations and Information Department</b>	<b>OPEC International Seminar 2025</b>	<b>General Description</b> <b>Duration: 3 months (Extendable)</b> <ul style="list-style-type: none"> <li>• Provide support to the Seminar Organizing Committee with various tasks.</li> <li>• Assist in archiving materials related to the Seminar.</li> <li>• Assist in drafting and archiving letters related to the Seminar.</li> <li>• Help in updating the website of the Seminar.</li> <li>• Assist in any other tasks as assigned by the relevant supervisor.</li> </ul> <b>Requirements:</b> <ul style="list-style-type: none"> <li>• Familiarity with website content management systems.</li> <li>• Excellent time management and communication skills.</li> <li>• Proficiency in written English.</li> </ul>	<b>IP-PRID-4</b>