



Senior Model Developer

Eng 11/Prof Acct 11 Level

Reference: DS.21

Candidate
Information
Booklet

We're interested in you becoming involved in SEAI. We want people who are driven towards climate action in this country.

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About Us

SEAI is Ireland's national energy authority with a mission to be at the heart of delivering Ireland's energy revolution. We drive the reduction and replacement of fossil fuel usage. We are a knowledge led organisation. We partner with citizens, communities, businesses and Government. We are trusted collaborators, innovators, funders and educators.

Our role is to transform the way we all use energy by moving to more efficient and clean sources, and by leading innovation in Ireland's approach to energy. If you are interested in working in an organisation that has a real and measurable impact on tackling our climate challenges, then consider a career with SEAI.

To find out more about us as an organisation, click [here](#).

Our culture in SEAI is defined by our values. These values define the way in which we strive to behave and act. SEAI's values include being **Passionate, Innovative, Courageous, Collaborative**, respecting the **Trust** you placed in us and recognising the importance of technical **Expertise**.

SEAI invites applications from suitably qualified candidates for this role. Full details of the role and how to apply are set out in this booklet.

Candidates should note that entry will be at the minimum of the salary scale and the rate of remuneration, including incremental progression, will not be subject to negotiation and may be adjusted from time to time in line with Government pay policy. Different terms and conditions may apply if you are currently a serving civil or public servant.

Canvassing will disqualify.

Position Profile

Title of Position: 2024/DS.21 Senior Model Developer

Starting Salary: €71,793 pa

(Other arrangements may apply if coming directly from another civil or public service body)

Blended Working: Details available within booklet.

Tenure: 5-year fixed term contract.

Head Office: 3 Park Place, Hatch Street Upper,
Dublin 2, D02 FX65, Ireland
www.seai.ie

Work Location: Dublin, Cork, Dundalk, Sligo.

Role Profile: We have an exciting opportunity in Data and Insights Department. The Data and Insights Department at SEAI is responsible for informing evidence-based decision-making and the implementation of sustainable energy solutions through the provision of policy-relevant research and guidance, robust evidence and energy modelling and statistics. In particular, the department is responsible for:

- providing targeted and timely evidence to inform policy formation, decision-making and implementation.
- improving the availability and accessibility of data and information to inform the national debate.
- working with other SEAI Departments and organisations to engage society on energy issues in the context of the wider sustainability agenda.
- providing economic, technical, behavioural and policy analysis and support to key stakeholders in the Irish energy sector.

This position will play a key role in the Data and Insights Department. The successful candidate will join an enthusiastic and innovative team who are committed to the high-quality delivery of SEAI's Energy Modelling, Energy Policy and Programme Evaluation, Behavioural Economics and Energy Statistics functions. The successful candidate will report to the Programme Manager for Energy Modelling.

Throughout SEAI, we believe in being welcoming, diverse and inclusive in our workplace, and in the services that we deliver, where we are respectful and value different experiences and perspectives. We are committed to achieving this for the benefit of all who work with SEAI and for all whom we support through our services'.

Key Responsibilities, Knowledge and Skills

Responsibilities

The responsibilities of the role outlined in this job description are indicative of the currently envisaged scope and may be added to or altered as required, in line with the requirement of SEAI across Business Units/Department.

They will include, but not limited to, the following:

- Contribute to the Energy Modelling team through leading development and maintenance of a range of analytical models, including detailed heat, energy efficiency, transport, and electricity system modules.
- Lead development of new analytical tools using Python, implementing with best practice code, documentation, and version control.
- Drive continuous improvement of the delivery of model projections outputs, including annual National Energy Projections.
- Prepare, integrate, and analyse SEAI programme data and external data to improve the quality of modelled inputs and outputs, the automation of input data updates, and validation of outputs.
- Develop flexible model outputs to inform policy advice and analysis across a broad range of topics for relevant Government Departments (primarily DECC) and public sector organisations.
- Contribute to the generation of clear and concise reports / issues papers etc. to inform policy making stakeholders.
- Produce effective data visualisations to illustrate analytical insights.
- Lead development and implementation of tools and processes for testing code changes and validating inputs / outputs to monitor, manage and assure the highest level of quality service delivery.
- Assist in identifying current and future data gaps, and latest research to continuously develop model methodology, functionality, and other analytical tools.
- Assist in specification of data storage and processing solutions to enable efficient data retrieval and analysis.
- Build and maintain strong working relationships with external stakeholders and with organisations delivering services on behalf of SEAI.
- Undertake any other duties /projects as may be required from time to time within Data and Insights and in alternative SEAI Business Units.
- Active team, cross-team, and cross-department participation, supporting SEAI Research and Policy Insights, and other programme areas, as required.
- Represent SEAI and Ireland in various fora such as meetings with National and International bodies, and in SEAI presentations, webinars, etc.

To ensure that activity peaks within the Department are addressed in a proactive manner, it is expected that the candidate appointed to this role will need to be flexible in terms of working hours during these periods.

Knowledge & Skills The knowledge and skills required include but are not limited to the following:

- Expertise and extensive practical experience in general-purpose Python development.
- Extensive experience in developing and testing statistical models for accuracy and robustness.
- Practical experience with data pipelines, especially integrated with cloud storage and accessed via query languages.
- Experience with testing framework and version control tools for Python development, such as pytest and Git.
- Very well-developed IT skills including fluency in using databases, analysis, visualisation tools etc.
- Experience leading code and model development projects to deliver timely and comprehensive finished product.
- A proactive approach in objective setting, project tracking and driving for timeliness, quality, and clarity of results and to operate with little guidance on project deliverables.
- Ability to think strategically, work on own initiative and display sound judgment.
- An ability to build and maintain positive relationships with stakeholders and to ensure good co-operation with team and external collaborators.
- Very good understanding of statistical methods and best practice in data gathering processing, analysis, and presentation.
- Ability to identify changes required to improve functionality and increase efficiencies in data management and modelling.
- Excellent technical ability in information management and report writing skills, coupled with an understanding of the need for accuracy and rigour in data collection and management.
- Excellent communication (written and oral) and presentation skills
- Ability to work effectively and flexibly within a small team, responding to needs as they arise.
- Energy sector knowledge and a keen interest in climate action.
- A knowledge of novel methods of dissemination of data and analysis would also be an advantage.
- A capacity to foster a positive working relationship with colleagues at all levels; to work in multi-disciplinary teams and to network effectively.
- Excellent organisation skills, together with the ability to prioritise work and manage a wide variety of tasks with a proven track record in meeting deadlines.

Experience and Qualifications

ESSENTIAL REQUIREMENTS

The successful candidate must be able to demonstrate:

- A Postgraduate Degree and/or equivalent professional qualification in Computer Science, Information Technology, Statistics, Engineering, Science or Economics.
- Minimum four years' experience of working in these areas, or similar.
- Excellent IT skills including a proficient use of tools for data extraction, analysis, and presentation.
- Demonstrated extensive practical experience developing in Python.
- Experience with version control tools, especially Git.
- Knowledge of advanced data analysis and modelling techniques.
- Successful track record of analysing substantial and multi-faceted data and creating clear and concise reports applicable to a wide range of stakeholders.
- Excellent communication (written and oral) and interpersonal skills, including ability to communicate technical information to non-technical audiences.
- Passion for climate action and providing evidence base to advance sustainable energy policy.

DESIRABLE REQUIREMENTS

- Expertise in Python, with experience developing production libraries or web applications.
- Knowledge of the energy sector and experience with analysing energy data.
- Extensive practical experience with Python applied to energy statistics, data science or modelling.
- Extensive experience working with databases and data pipelines, including design, setup, extraction, and storage optimization.
- Practical experience in querying data using SQL or similar query language.
- Experience with cloud services for data processing in Azure or similar.
- Successful track record in building and maintaining good relationships with external clients.
- A strong understanding of public sector, industry environment and context.
- Experience working in the energy sector and awareness of latest research in sustainable energy transition.

How to Apply

SEAI invites applications from suitably qualified candidates for this role, as set out in this booklet. SEAI is an equal opportunities employer and welcomes applications from people from diverse backgrounds and under-represented groups including ethnic minorities and people with disabilities.

Submission Applications should be submitted in the form of a cover letter (max of two pages) demonstrating how the applicant meets the requirements for this role as set out in this booklet together with an up-to-date Curriculum Vitae (CV). Both documents should be submitted via the candidate portal on the SEAI careers [website](https://www.seai.ie/careers/open-roles) www.seai.ie/careers/open-roles

Eligibility to Work The SEAI has a legal obligation to ensure that all employees are lawfully entitled to work in Ireland. To qualify, candidates must hold a valid visa on the date of application and where applicable to support a candidate's application, candidates must submit a valid work permit/visa confirming permission to work in Ireland when requested. Failure to submit the required evidence, and failure to hold a valid permit/visa during the period of the contract, will result in the application and/or contract of employment being rendered void.

Note in respect of UK citizens: Information regarding the Common Travel Area is available [here](#).

Closing Date Your application must be received by **midnight on Thursday 8th August 2024**.

Applications will not be accepted after this time and date. All applications will be acknowledged by email within three working days. If you do not receive an acknowledgement within three working days, please contact recruitment@seai.ie

Shortlisting Eligible applications will be shortlisted according to how well the experience and skills as described by applicants match the requirements of this role as contained in this booklet. It is important that applicants consider the information contained in this Information Booklet in presenting and demonstrating their relevant qualification, skills and experience for this role. The candidates whose applications, in the expertise of the interview panel, appear best suited to the position will be shortlisted for interview.

Interview An interview process will be held with an interview panel in accordance with SEAI arrangements for posts at this level. Shortlisted applicants will be invited to attend for a competency-based interview. A presentation may be required on a topic of relevance to the role and/ or other such assessment methods as deemed appropriate. The SEAI may invite candidates to a second-round interview and to undergo

further assessment, including the use of psychometric assessment if so required. Interviews may take place in person or online, as appropriate.

Candidates are not permitted to use any type of recording equipment at any stage of the selection process unless written permission has been provided in advance of the process. This applies to any form of sound recording and any type of video recording, whether including sound recording or not, and covers any type of device used for these purposes.

Prior to recommending any candidate for appointment to this position, SEAI will make all such enquiries deemed necessary to find that candidate's suitability. Until all stages of the recruitment process have been fully completed; a final decision cannot be made.

Key Competencies

At interview, candidates should demonstrate the ability to carry out successfully the duties of the role, as well as the general skills and competencies required at Eng 11/Prof Acct 11 grade (aligned with Assistant Principal Officer level competencies). The key competencies that have been developed for roles at this grade level are as follows.

- Leadership
- Judgement, Analysis & Decision Making
- Management & Delivery of Results
- Interpersonal & Communication Skills
- Specialist Knowledge, Expertise and Self Development
- Drive and Commitment to Public Service Values

Each of the key competencies is supported by a list of key performance indicators which are available [here](#)

Candidates are strongly encouraged to prepare in advance of the interview, clear and relevant examples of how they have previously demonstrated these specific competencies.

Deeming of Candidate to be Withdrawn

Candidates who do not attend for interview or other tests when and where required, or who do not, when requested, furnish such evidence, as the SEAI require regarding any matter relevant to their candidature, will have no further claim to consideration.

Feedback

Feedback will be provided to interviewees on written request.

Code of Practice

This campaign is being organised in accordance with the existing Code of Practice 'Appointment to Positions in the Civil Service and Public Service' published by the Commissioners for Public Service Appointments (CPSA).

SEAI Values



Passionate

We are enthusiastic about our role in working towards a sustainable energy society. We channel our passion and commitment into the way we operate to ensure that we will deliver for all of Irish society



Courageous

We understand the scale of Ireland's energy challenge and accept our role in meeting this challenge. We understand that every one of us has a part to play in delivering the energy changes that Ireland needs.



Innovative

We know that existing technologies and processes alone will not allow us to realise a fully sustainable energy society. We are continually learning, seeking new solutions, and constantly adapting to meet the demands of our fast-changing environment.



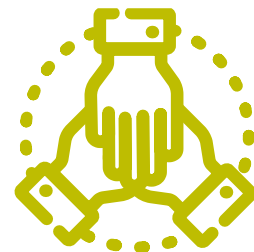
Trusted

We appreciate the trust placed in us by citizens, communities, business and Government. Without it we could not deliver on these objectives. We respect this trust and seek to maintain it by obtaining transparently, working with integrity, holding ourselves accountable and functioning independently.



Experts




We recognise the importance that technical expertise lays in achieving a sustainable energy future. We seek to further enhance this expertise within SEAI through research, critical thinking, consultation, listening, analysis and delivery.



Collaborative

We will not succeed by operating in isolation. We actively look to work with all those in Irish society; listening to ideas and concerns, incorporating feedback and looking to support every individual, community and business in Ireland to be a part of the sustainable energy revolution.

Employee Value Proposition

<p>Benefits</p> 	<ul style="list-style-type: none"> • Modern Dublin HQ, located centrally and accessible with many transport options. • Regional office in Cork, Dundalk, and Sligo. • Hybrid working model (up to two days in office, three days remote with option for 1-month remote p/annum). • Employee Assistance Programme. • Cycle to work scheme. • Range of 23-30 days annual leave, depending on role & company date (Good Friday).
<p>Culture</p> 	<ul style="list-style-type: none"> • Purpose led organisation with passionate experts invested in making an impact. • Employee centred, value driven team environment. • Strong focus on Equality, Diversity, and inclusion (EDI). • Employee driven committees including Green Team, EDI, Social etc. • Focus on work life balance and flexibility.
<p>Compensation</p> 	<ul style="list-style-type: none"> • Competitive and transparent salaries and salary scales. • Annual increments. • Obligatory pension schemes with Additional Voluntary Contribution option. • Financial support towards further education and study and exam leave. • Supportive illness policies and pay for different circumstances including Income Continuance Plan. • Good Gender pay balance.
<p>Career</p> 	<ul style="list-style-type: none"> • Successful track record of internal promotions. • Numerous different career paths across the organisation. • Training and mentoring programmes. • Investment in individual learning and development. • Leadership training and development.

Conditions of Service

Tenure:	This position will be offered on a 5-year Fixed Term contract basis.
Salary Payment Arrangements:	<p>The Eng11/Prof Acct 11 salary scale for this position effective from 1st June 2024 is as follows: €71,793 to €87,553(inclusive of two Long Service Increment (LSI1) which applies after three and after 6 years additional service at Max of grade). Incremental progression will be subject to satisfactory performance.</p> <p>Important Note: Candidates should note that entry will be at the first point of the scale and the rate of remuneration, including incremental progression, will not be subject to negotiation and may be adjusted from time to time in line with Government pay policy.</p> <p>Different terms and conditions may apply if you are currently a serving civil or public servant.</p>
Location:	The place of work will be based at one of the SEAI offices as listed on cover page. SEAI offer the option to work in a hybrid working arrangement, in line with the SEAI Blended Working Policy. SEAI reserves the right, at its discretion, to change working location within reason on any future date.
Blended Working Arrangements:	As an employer, SEAI operates a blended working policy that facilitates access to remote working options having regard to work-life balance/integration, mental health, and the need for a safe and productive working environment. Blended working arrangements will be operated under SEAI's Blended Working Policy, which currently requires staff to work from the office a minimum of two (2) days per week. Availability and patterns of blended working will be based on business needs and the suitability of the role and may be subject to change should the business needs dictate.
Probation:	On appointment, the appointee will serve a six (6) month probationary period. In certain circumstances, the probation period may be extended, in line with the SEAI's Probationary Policy and Procedures.
Working Week:	Hours of attendance will be as fixed from time to time but will amount, on average, to not less than 41.25 hours per week (35 hours net of rest breaks). Pro-Rata will apply in the case of part-time role. Additional hours may from time to time be reasonably required to meet the requirements of the position. No additional payment will be made for extra attendance as the rate of remuneration payable covers any exceptional extra attendance liability that may arise from time to time.
Annual Leave:	The annual leave allowance will be 27 working days a year, based on a five-day week and is exclusive of public holidays. Pro-rata will apply in the case of part-time role. Annual Leave is to be taken at a time or times convenient to SEAI.
Eligibility to Work:	The SEAI has a legal obligation to ensure that all employees are lawfully entitled to work in Ireland. Where applicable and to support a candidate's application, candidates must submit a valid work permit/visa confirming

permission to work in Ireland. Failure to submit the required evidence, and failure to hold a valid permit/visa during the period of the contract, will result in the application and/or contract of employment being rendered void.

Those not eligible to apply for the role

Former Irish Public Service Employees - Certain Restrictions on Eligibility. Eligibility to apply for a position may be affected where applicants were formerly employed by an Irish Public Sector body and previously availed of an Irish Public Service Redundancy or Incentivised Retirement Scheme including the below. For details on restrictions click [here](#).

- Collective Agreement: Redundancy Payments to Public Servants
- Incentivised Scheme for Early Retirement (ISER)
- Department of Health and Children Circular (7/2010)
- Department of Environment, Community & Local Government (Circular Letter LG(P) 06/2013).

Declaration: Applicants will be required to declare whether they have previously availed of a public service scheme of incentivised early retirement and/or the collective agreement outlined above. Applicants will also be required to declare any entitlements to a Public Service pension benefit (in payment or preserved) from any other Public Service employment.

Other Conditions of Employment: The above represents the principal conditions of service and is not intended to be the comprehensive list of all terms and conditions of employment which will be set out in the employment contract to be agreed with the appointee.

Standard Checks: Any offer of employment made to a successful candidate will be subject to satisfactory reference verification and satisfactory verification of academic and professional qualifications. SEAI commits to treat all the information or documents received under GDPR guidelines.

Superannuation and Retirement: The appointee will be offered the appropriate superannuation terms and conditions as prevailing in the Public Service at the time of being offered an appointment. In general, an appointee who has never worked in the Public Service will be offered appointment based on membership of the Single Public Service Pension Scheme ("Single Scheme").

Full details of the Scheme are at <http://www.per.gov.ie/pensions>

