

Deadline: 20 May 2022



APPLY 28-2022

# Research Software Programmer: Oracle and Java development

IIASA POLLUTION MANAGEMENT RESEARCH GROUP

The **Pollution Management (PM) Research Group**, within the **IIASA Energy, Climate and Environment (ECE) Program** is looking to recruit a motivated and talented research software developer to work within a team.

## BACKGROUND

The Pollution Management (PM) Research Group at IIASA is exploring the multiple benefits of measures to reduce air pollution and greenhouse gases emissions, to inform decision makers about policy interventions that simultaneously meet multiple policy targets.

Its Greenhouse gas – Air pollution Interactions and Synergies (**GAINS**) model identifies cost-effective portfolios of measures that reduce the health effects of human exposure to ambient and indoor air pollution and contribute to climate and development targets. In the GAINS development context, large relational databases form an integral part of the infrastructure for research conducted with the GAINS integrated assessment model. These web databases are 3-Tier web applications (Web UI, JAVA servlets, ORACLE RDBMS) which have been designed and implemented over the past decade.

## MAIN DUTIES

- Assist in the software development and implementation of the new GAINS web application framework as outlined above
- Assist in the GAINS data exchange service development
- Improve the GAINS content and metadata management and administration features
- In line with the team spirit that prevails at IIASA, the incumbent may occasionally work on other tasks assigned by their superiors, that might not be directly related to this appointment but where the post holder has relevant experience and skills, and/or a shortage of immediate personnel capabilities requires such.

## QUALIFICATIONS, SKILLS AND EXPERIENCE

## APPOINTMENT TERMS

Candidates should be available to take up the position as

- BS or MS (or equivalent, e.g., DIFH) in a field related to computer science and software development, and strong interest in scientific software development
- Familiarity with designing and developing multiple-model data source management (use cases, data source and model descriptions and web interface), and developing metadata mappings and management software packages
- Strong programming skills in java Spring framework, React java script
- Familiarity with relevant tools and techniques (ORACLE RDBMS, JAVA Spring, React java script, JSON Processing and RESTful APIs) and an interest in extending existing skill set
- Proficiency with Java programming and Oracle database highly desired
- Understanding of methods and data exchange services
- Knowledge of software architecture, i.e., system integration development
- Full professional proficiency of English as a working language combined with excellent interpersonal, networking and communication skills
- Self-manager and ability to demonstrate initiative and work independently, as well as in close collaboration with a team
- Ability to write in a clear and concise manner, and to present factual, data-driven information
- IIASA offers an interdisciplinary and international workplace, and the possibility to interact with researchers of different nationalities, with strong ties to a world-wide network of research institutions engaged in environmental systems research. The successful candidate must be able to work in, and have respect for, an intercultural environment, and [IIASA core values](#).

soon as possible in 2022. We offer an initial fixed-term, full-time employment contract for one year, with the possibility for extension thereafter.

Applicants wishing to work part-time hours may also be considered.

Duties will be carried out at the IIASA premises in Laxenburg, near Vienna in Austria (up to 100 days home office working within Austria possible).

This position is classified as a "Professional" level post.

## WE OFFER

A *minimum* gross full-time (40 hours per week) annual salary of EUR 41,700.00 which is exempt from income tax in Austria. The advertised salary is:

- Negotiable, based on the qualifications, skills and experience of the selected individual.
- Subject to deductions for health insurance and/or social security.
- Not directly comparable with other employers in Austria, due to the unique legal status and privileges granted to IIASA.
- Subject to the principle of income aggregation (Progressionsvorbehalt in German).

## IN ADDITION

- Educational subsidies for children of school age enrolled in private schools in Austria.
- A generous annual leave allowance.
- Moving and settlement allowances and paid home leave for employees in scientific and professional categories hired from international locations.
- Assistance for newcomers to Austria with visa, work and residency permit applications.
- Support finding accommodation in Austria.
- The option to become a member of a wide range of IIASA clubs such as the tennis, music, soccer, and "women in science" club - to name but a few.

Further details [here](#).

## About IIASA

IIASA is committed to a working environment that promotes equality, diversity, tolerance and inclusion within its workforce. This is reflected in our [IIASA core values](#). We encourage qualified candidates from all religious, ethnic, and social backgrounds to apply. In the case that candidates are equally qualified, preference will be given to applicants from countries where IIASA has a [National Member Organization](#) (NMO).

## Further Information

For further information about this opportunity please contact:

[Zbigniew Klimont](#), PM Research Group Leader

For general questions about working at IIASA, please contact:

[recruitment@iiasa.ac.at](mailto:recruitment@iiasa.ac.at)

## Applications

To apply for this opportunity, you will need to provide the following documents in English:

- A cover letter outlining your motivation for and fit to the position
- A detailed Curriculum Vitae
- The names, addresses (including e-mail), and telephone numbers of two work-related reference givers.
- At least one letter of recommendation.

Deadline for receipt of applications: 20 May 2022

**APPLY**