Job posting

Type of position

- ☒ scientific
- ☐ administrative

Target group

- ☒ graduates
- ☒ post docs
- ☐ other

Title

ARISE Fellowships for technology developers

Institution

EMBL (all EMBL sites)

Position

In the frame of ARISE (Career Accelerator for Research Infrastructure Scientists) programme, EMBL is looking for experienced professionals with a background in science, technology, engineering, or mathematics (STEM) eager to develop novel technologies for life sciences and get trained to operate life science research infrastructures of tomorrow.

Successful applicants will become ARISE Fellows and will receive a three-year Fellowship to:
- work on method or technology development of their choice in various areas (from bioinformatics or engineering, see the full list below), towards service provision to external life science researchers and
- get trained in operation and management of research infrastructures and service provision.

ARISE is the first Fellowship programme of its kind in Europe and is designed to train Fellows to become highly skilled leaders or senior staff at research infrastructures or other service providing facilities.

In addition, ARISE Fellows will gain broad understanding of life sciences, data management and FAIR data policies. The programme will also provide broad professional networking opportunities, raising awareness about technology and science developments, and the needs of the user community.

Each ARISE Fellow will be hosted by an EMBL group or team of their choice at one of EMBL’s six sites (Barcelona, Grenoble, Hamburg, Heidelberg, Hinxton, or Rome) and will do secondments at partner organisations from industry or academia. EMBL group and team leaders participating in ARISE, all have a track record in developing new methods and technologies, providing these as a service to external
researchers, and applying them to answer novel scientific questions.

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945405.

Responsibilities
As an ARISE Fellow, you will be carrying out research work on a method or technology development project of your choice. The technology that you wish to develop should facilitate research in life sciences and should have a potential to be integrated in the service catalogues of research infrastructures. As a Fellow, you will work in one or several diverse technology fields such as AI and machine learning, bioinformatics, (bio)chemical engineering, chemistry or chemical biology, computational modelling, software development, data management, data science, automation, detector development, X-ray optics, X-ray crystallography, high-precision mechanics, image analysis, Imaging, microscopy, microfluidics, robotics, and omics technologies.

The technologies that you will develop should support research in EMBL life science fields, e.g., bioinformatics research, biophysics, biotechnology, cell biology, computational biology, developmental biology, disease modelling, drug design, epigenetics, genome biology, neurobiology, structural biology, tissue biology, translational research, planetary biology.

You should start planning your own project proposal already during the application phase for the Fellowship, discuss it with EMBL groups of interest, and include it in your application (see below How to apply). The project should reflect your interests and align with the expertise of the EMBL group or team that you wish to join, as well as the research focus of the ARISE partner organisation in which you wish to complete your secondment.

Requirements
You have:
- A University degree in natural sciences or related STEM disciplines (Science, Technology, Engineering and Mathematics)
- At least four years of full-time equivalent research experience (in technology development) in STEM fields, a high level of skills (postdoctoral standard) or expertise in a specialisation in which doctoral degrees are not usually awarded. Experience can be both in academia or non-academic sectors, but must be relevant to the research fields of EMBL groups and teams that are participating in the programme.
- Experience relevant to technology development related to service provision
- Strong scientific potential that can be shown through e.g., scientific publications, scientific software unique or problematic data sets, technical documentation or similar, contributions to patents, examples of management of technology development
projects or detailed description of any other innovative research you have performed and your achievements or through other ways to demonstrate experience relevant to technology development and scientific services.
- Fluency in English (written and oral) and excellent communication skills
- Demonstrated experience in collaborative working
- The capacity to work independently and think creatively, excellent time management and organization skills
You might also have a PhD, but it is not mandatory

**Application procedure (deadline etc.)**

For details on how to apply, please visit embl.org/arise. The application with all required documents should be submitted using the online submission system.

In your online application, you will be asked to submit a project proposal as well as additional documents relevant for the evaluation of your application. Please download the Guide for Applicants here to learn which documents are required and to find the list of necessary steps and templates.

Should you have questions, please feel free to contact the ARISE project management team (arise@embl.org). Interviews are planned for April 2021 (expected: week 12 – 16 April 2021). The Fellowship has a fixed duration of 3 years. Expected start of the Fellowship is in May 2021 or later, if needed.

**Contact**
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