EUROPEAN SPACE AGENCY

Intern in EAC in the Low Earth Orbit Exploration Group, Space Medicine Team (Remote)

Job Req ID: 12512
Closing Date: 25 June 2021
Publication: External Only
Vacancy Type: Intern
Date Posted: 28 May 2021

ESA is an equal opportunity employer, committed to achieving diversity within the workforce and creating an inclusive working environment. Applications from women are encouraged.

Location
EAC, Porz-Wahn, Germany

Our team and mission
Based at the European Astronaut Centre (EAC), ESA's Space Medicine Team (SMT) comprises medical doctors, biomedical engineers, exercise physiologists, psychologists, IT specialists, education coordinators, administrators and project managers. Each plays a vital role in ensuring the health and well-being of astronauts during all stages of a mission.

To better support astronauts during current missions to the International Space Station and prepare for human missions beyond low Earth orbit, the Space Medicine Team is working to identify, evaluate and develop new space technologies and procedures. This process involves collaborating with ESA's technology teams and Human Research Office to identify existing space-relevant technologies and scientific knowledge, and looking outside of ESA at terrestrial technology developments and the wealth of current science knowledge concerning human health. The Space Medicine Team work in close partnership with national space agencies, industry, research institutions and universities from across ESA's Member States. In collaboration with other groups and teams within the ESA and the EAC, the SMT run a broad portfolio of training courses for students of all educational levels and young medical professionals.

You can find more information on the work of the Space Medicine Team here: http://www.esa.int/About_Us/EAC/Space_Medicine

Candidates interested are encouraged to visit the ESA website: www.esa.int/ESA

Field(s) of activity/research for the traineeship
Topic 1
In support of the ESA Space Medicine Team and International space medicine, our Research, Education & Development Initiative REDI seeks to promote technical (research and development) and individual (education and training) readiness for current and future human space missions through academic collaboration and educational partnerships.

As part of this initiative, we offer internships to students of medicine, biomedical sciences (including exercise science) or biomedical engineering and – where appropriate – those with specific expertise in analytics/programming or education/outreach.

Our internship projects may involve the collection and/or the analysis of medical/research data (in collaboration with partners), performance of targeted systematic literature reviews, elements of medical hardware evaluation/development, database management, the generation of analytical models/simulations and/or knowledge dissemination.

Our current internship opportunity is in the following domain:
- Identification and evaluation of medical risks (incl. radiation) associated with Low Earth Orbit and Deep Space vehicles/habitats;

Specifically, we would like an intern to use the systematic review approach to evaluate the evidence for changes in spaceflight associated with thrombosis risk and/or its evaluation as a case was recently reported on the International space Station.

Behavioural competencies
Result Orientation
Operational Efficiency
Fostering Cooperation
Relationship Management
Continuous Improvement
Forward Thinking

Education
You must have student status and be enrolled at university for the entire duration of the internship. You should preferably be in your final or second to last year of a University course at Masters Level in a technical or scientific discipline.

Additional requirements
The working languages of the Agency are English and French. A good knowledge of one of these is required.Knowledge of another Member State language would be an asset.

Knowledge and background in performing literature searches, in particular using the systematic review approach is an asset.

The topic listed above respectively require such educational knowledge as:

Topic 1
In order to optimise productivity and applicability, we encourage the use of a range of open-source tools. Please highlight in your application if you have expertise/experience in the use of:
- Rayyan or other software: for systematic reviews.
- Mendeley: for Citation management.

Other information
For behavioural competencies expected from ESA staff in general, please refer to the ESA Competency Framework.

If you require support with your application due to a disability, please email contact.human.resources@esa.int.

Please note that applications are only considered from nationals of one of the following States: Austria, Belgium, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, and the United Kingdom. Nationals from Latvia,

Lithuania and Slovenia, as Associate Member States, or Canada as a Cooperating State, can apply as well as those from Bulgaria, Cyprus and Slovakia as European Cooperating States (ECS).