



2019-PTT-G-000-012148

**Modelling of Isotope Separation by  
irradiation (M-Iso-Sep)**

**Position for:**

trainee

As the science and knowledge service of the Commission, the mission of DG Joint Research Centre is to support EU policies with independent evidence throughout the whole policy cycle.

The JRC is located in 5 Member States (Belgium, Germany, Italy, the Netherlands and Spain). Further information is available at: <http://www.jrc.ec.europa.eu>

**Short description of activity:**

In the frame of the Proof of Concept project M-Iso-Sep, numerical simulations will be carried out to guide and interpret experiments of irradiation of nanoparticles for medical isotopes synthesis and separation. The trainee will have to install and run different public domain numerical simulation packages (MCNPX, LAMMPS, Iradina) on different workstations and computers in Dir G units in Petten. The trainee will therefore install, compile and run with demo files the 3 codes indicated, with the help of the JRC staff. The trainee will support the project under the supervision of a mentor/traineeship adviser.

**Qualifications:**

The trainee will have an university (bachelor) degree in IT or equivalent, with good knowledge of Windows and Linux. Capability of working in an international environment is needed. English B2 level is required.

**For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:**

<https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees>

<b>Directorate Unit</b>	G.I.4 - Nuclear Reactor Safety and Emergency Preparedness Directorate G – Nuclear Safety and Security  Further information: <a href="https://ec.europa.eu/jrc/en">https://ec.europa.eu/jrc/en</a>
<b>Indicative duration</b>	5 months
<b>Preferred starting date</b>	asap
<b>JRC Site</b>	Petten
<b>Country</b>	The Netherlands
<b><u>JRC contact details</u></b>	For any technical problems with your application, please contact: <a href="mailto:JRC-ESRA@ec.europa.eu">JRC-ESRA@ec.europa.eu</a>