



# ISOTOPICS

## ISOTOPIC LABELING FOR DRUG INNOVATION

Marie Skłodowska Curie Action – ITN 2016-2019



## URGENT

### PhD Position available at Karolinska Institute, Stockholm

Euraxess #156625 (<https://euraxess.ec.europa.eu/jobs/156625>)

Karolinska Institutet (Stockholm, Sweden) is urgently seeking for 1 Early Stage Researcher (ESR) to pursue a PhD degree funded for a period of 48 months in Stockholm.

The ISOTOPICS project provides a unique opportunity for an ESR to carry out a PhD research project on radiochemistry with the short-lived radionuclide carbon-11.

#### Research group

Positron Emission Tomography (PET) is a translational molecular imaging technique increasingly used in biomedical research and drug development. The PET group at Karolinska Institutet is one of the leading research groups in the world in this area.

#### The doctoral education project and the duties of the student

Isotopics aims to train the next generation of European chemists with expertise in isotopic labeling and advanced medicinal chemistry through a first-class taught and research training program combined with a highly interactive secondments plan; i) to develop innovative and general isotopic labeling chemistry and radiochemistry to streamline the synthesis of labeled small-molecule drugs and biologics; ii) to work closely with the European pharmaceutical industry to apply the new labeling methods to drugs currently in development in order to provide solutions to the most pressing problems in drug innovation.

We are looking for two motivated and skilled organic chemists that can help us take the next steps in the development of methods for introducing carbon-11 into radioligands for PET imaging. We offer a first class education at Karolinska Institute in collaboration with our colleagues in the ISOTOPICS network. Project implementation includes 2 secondments in Sweden (AstraZeneca Gothenburg) and France (CEA-Saclay-SCBM) in order to expose the student to a dual industrial/academic experience.

#### Entry requirements for doctoral education at KI

To be eligible for doctoral education following requirements has to be met:

- has been awarded advanced/second-cycle/master qualification, i.e. **master degree obtained in the last 4 years** or has satisfied the requirements for courses comprising at least 240 credits of which at least 60

credits were awarded in the second-cycle/master level, or has acquired substantially equivalent knowledge in some other way in Sweden or abroad;

- **must not have a PhD degree;**

- **must not have spent more than 12 months in Sweden in the last 36 months.**

Proficiency in English equivalent to the course English B/English 6 at Swedish upper secondary school.

**Starting date: As soon as possible.**

#### **CONTACTS:**

Please, send an email with a letter of candidacy, curriculum vitae and at least two letters of recommendation to:

**Supervisor & Thesis Director:** Prof. Christer Halldin (Karolinska Institute, email: [christer.halldin@ki.se](mailto:christer.halldin@ki.se))

**Other contact:** Dr. Magnus Schou (AstraZeneca Stockholm, email: [Magnus.schou@astrazeneca.com](mailto:Magnus.schou@astrazeneca.com))

**Industrial Cosupervisor:** Dr. Charles Elmore (AstraZeneca Gothenburg)