

# Open positions at Emotion Lab / Turku PET Centre

**Human Emotion Systems Laboratory at Turku PET Centre, Finland** is looking for new personnel for our flagship project on imaging the whole-body emotion circuits, **led by Prof. Lauri Nummenmaa** and **funded by the European Research Council**. In the project we use newly developed state-of-the-art methods in **total-body positron emission tomography** and signal analysis for studying the emotion circuits spanning from brain to the periphery in health and disease.

We currently have openings for one **senior scientist** and one **post-doctoral scientist** for fixed term positions starting in Autumn 2024 (starting date negotiable) to December 31<sup>st</sup>, 2027.

## Job description

The **senior scientist** will help in leading the research team in the total-body PET studies, developing the new research line in whole-body emotion imaging, supervising PhD / masters' students and conducting, reporting, and communicating the findings to the scientific community and the public. The **post-doctoral scientist** will be responsible for designing and conducting the total-body PET studies, analyzing and reporting the data, and supervising Masters' students.

## Who we are looking for

We are seeking for aspiring individuals with strong motivation and skills for research in human in vivo imaging, cognitive and affective neuroscience, or development or application of PET image analysis methods for quantification of multidimensional data obtained during PET experiments. The applicants should also be interested in studying human affective and cognitive functions. The candidates should have a background and PhD degree in medicine, engineering, computational science, physics, cognitive science, psychology, or related fields, and skills for working with empirical imaging data. Good command of the English language (written and oral) as well as skills for teamwork in a multidisciplinary research group are essential. The applicants are expected to have an excellent track record in carrying out high-quality research on social and emotional processing using imaging methods, or alternatively on relevant methods and signal analysis development.

## What we offer

- Competitive salary
- Cutting-edge research infrastructure for PET, MRI and SPECT studies
- Excellent working environment with hands-on training to PET and MR imaging science
- Opportunity to work in a motivated, skilled, inspired and supportive group
- A chance to work in Finland - one of the most beautiful countries in the World

## Salary and trial period

The salaries are determined in accordance with the university salary system for teaching and research personnel. The salary will be commensurate with qualifications and experience based on the University salary system. A trial period of six (6) months is applied.

## How to apply

Please submit your application through our online recruitment system at <https://www.utu.fi/en/university/come-work-with-us/open-vacancies> (job IDs #20458 and #20459) The **closing date for applications is September 12th 2024** at 16.00 (EEST GMT+3 / at 13:00 UTC). Please write your application and accompanying documents in English. Applicants should enclose with their application:

- A letter of intent including a brief description of the applicant's past and current research interest
- Curriculum vitae
- Degree certificates
- Complete list of publications with 10 most significant publications highlighted
- Letters of recommendation (with contact information) for the applicant this position from two prior academic supervisors or persons acquainted with the applicant and his work.

## Further information

For further information on the position please contact prof. Lauri Nummenmaa at Turku PET Centre ([latan@utu.fi](mailto:latan@utu.fi)) For further information on the recruitment process, please contact HR Specialist Ms. Mirjami Jaakkola ([mirjami.jaakkola@utu.fi](mailto:mirjami.jaakkola@utu.fi)) Please also visit our web pages at <http://emotion.utu.fi> (Human Emotion Systems Laboratory) and <http://pet.utu.fi> (Turku PET Centre).

## Human Emotion Systems Laboratory

**Human Emotion Systems laboratory** is one of the **world's leading sites for emotion research**. **We spearhead the use of PET** and fusion imaging in mapping the human emotion circuits in the brain and the body, but also excel in functional and structural MRI and behavioural emotion studies mapping of subjective emotional sensations in the body. Our **multidisciplinary group** consists of medical doctors, mathematicians, engineers, psychologists, and computer scientists, and provides a fantastic ecosystem for cutting-edge basic and applied affective science.

## Turku PET Centre

**Turku PET Centre** is one of the **leading centers in the world dedicated for PET** research. TPC and its 200 scientists is an exceptional research environment. Our expertise covers all essential PET related fields from radioisotope production, radiopharmaceutical synthesis, preclinical imaging, and clinical diagnostics to experimental studies in humans. TPC employs state-of-the-art resources including dedicated facilities of over 3000 m<sup>2</sup>. Radioisotope and

radiopharmaceutical production facilities include **four cyclotrons** and a **GMP-level radiochemistry** laboratory for radiopharmaceutical production with 25 hot cells with synthesis devices. For human imaging, we have the **Siemens Quadra total-body PET-scanner**, two **conventional PET-CT-scanners**, and one **PET-MR scanner**. We also have **three small animal PET-CT scanners**. TPC has a long tradition on testing and implementing new technologies to clinical use.

## University of Turku

The University of Turku is an inspiring and international academic community of 25,000 students and staff in Southwest Finland excelling in medical research with possibilities for strong multidisciplinary education and research. The university has 22 000 students and a staff of 3500 including 350 professors.