

# SEWPROF ITN: 15 Marie Curie Fellowships

*A new paradigm in drug use and human health risk assessment: Sewage profiling at the community level*  
<http://sewprof-itn.eu/>



Several fully funded Marie Curie Early Career and Experienced Researcher positions are available to undertake research in a multi-disciplinary area of sewage epidemiology.

## Description

These positions are offered in the scope of the European Marie Curie 'SEWPROF' Initial Training Network entitled 'A new paradigm in drug use and human health risk assessment: Sewage profiling at the community level'. SEWPROF's main objective is to provide an integrated approach towards public health monitoring at a community level based on innovative sewage epidemiology techniques. The approach will deliver real-time profiling of community-wide health and lifestyle through the analysis of human biomarkers in wastewater using a wide-range of methods including hyphenated mass spectrometry techniques, bioanalytical techniques and real-time sensing.

## AVAILABLE POSTS STARTING IN MARCH 2013

### EARLY STAGE RESEARCHERS:

#### ESR1: Passive samplers for sewage epidemiology

Host institution: NIVA, fixed term: 3 years; start date: March 2013  
For informal enquiries contact: Kevin Thomas; Email: [kth@niva.no](mailto:kth@niva.no)

[Get detailed information and find out how to apply](#)

#### ESR2: Optimize sampling at various scales and characterize sewer properties that are relevant for biodegradation throughout entire catchments

Host institution: Eawag, fixed term: 3 years; start date: March 2013  
For informal enquiries contact: Dr Christoph Ort; Email: [christoph.ort@eawag.ch](mailto:christoph.ort@eawag.ch)

[Get detailed information and find out how to apply](#)

#### ESR3: Modelling of in-sewer transformation of biomarkers

Host institution: DTU; fixed term: 3 years; start date: March 2013  
For informal enquiries contact: Dr Benedek Plósz; Email: [beep@env.dtu.dk](mailto:beep@env.dtu.dk)

[Get detailed information and find out how to apply](#)

#### ESR4: Development and validation of sewage biomarkers of human health

Host institution: NIVA; fixed term: 3 years; start date: March 2013  
For informal enquiries contact: Kevin Thomas; Email: [kth@niva.no](mailto:kth@niva.no)

[Get detailed information and find out how to apply](#)

#### ESR5: Identification and screening of sewage biomarkers of human exposure to environmental and food toxicants

Host institution: MARIO NEGRI; fixed term: 3 years; start date: March 2013  
For informal enquiries contact: Dr Sara Castiglioni; Email: [sara.castiglioni@marionegri.it](mailto:sara.castiglioni@marionegri.it)

[Get detailed information and find out how to apply](#)

#### ESR6: Enantiomeric profiling of chiral biomarkers

Host institution: UoB; fixed term: 3 years; start date: March 2013  
Informal enquiries contact: Dr Barbara Kasprzyk-Hordern; Email: [b.kasprzyk-hordern@bath.ac.uk](mailto:b.kasprzyk-hordern@bath.ac.uk)

[Get detailed information and find out how to apply](#)

#### ESR7: Investigating the sewage epidemiology approach for new drugs/psychoactive compounds and their metabolites

Host institution: UA; fixed term: 3 years; start date: March 2013  
For informal enquiries contact: Prof. dr. Adrian Covaci; Email: [Adrian.Covaci@ua.ac.be](mailto:Adrian.Covaci@ua.ac.be)

[Get detailed information and find out how to apply](#)

#### ESR8: Mass spectrometric tools for targeted analysis, screening of unknowns and retrospective analysis of new drugs and metabolites

Host institution: KWR; fixed term: 3 years; start date: March 2013  
For informal enquiries contact: Pim de Voogt; Email: [pim.de.voogt@kwrwater.nl](mailto:pim.de.voogt@kwrwater.nl) or [w.p.devoogt@uva.nl](mailto:w.p.devoogt@uva.nl)

[Get detailed information and find out how to apply](#)

#### ESR9: The investigation of drugs and metabolites in sewage water and surface water using advanced analytical techniques

Host institution: UJI; fixed term: 3 years; start date: March 2013  
For informal enquiries contact: Dr. Félix Hernández; Email: [felix.hernandez@qfa.uji.es](mailto:felix.hernandez@qfa.uji.es)

[Get detailed information and find out how to apply](#)

#### **ESR10: Can variations in drug presence in sewage indicate prescription drug abuse**

Host institution: UiO; fixed term: 3 years; start date: March 2013

For informal enquiries contact: Professor Jørgen G. Bramness; Email: [j.g.bramness@medisin.uio.no](mailto:j.g.bramness@medisin.uio.no);

[Get detailed information and find out how to apply](#)

#### **ESR11: Experimental studies for comparison of human metabolism of (new) drugs with microbial metabolism and processes in sewage using sewage samples from different European locations**

Host institution: USAAR; fixed term: 3 years; start date: March 2013

[Get detailed information and find out how to apply](#)

#### **EXPERIENCED RESEARCHERS:**

##### **ER4: Monitoring the appearance of new synthetic drugs of abuse**

Host institution: TICTAC; fixed term: 2 years; start date: March 2013

For informal enquiries contact: John Ramsey; Email: [sgka100@sgul.ac.uk](mailto:sgka100@sgul.ac.uk)

[Get detailed information and find out how to apply](#)

#### **AVAILABLE POSTS STARTING IN OCTOBER 2013**

---

##### **ER1: Multichannel biosensors for human biomarkers**

Host institution: UoB; fixed term: 2 years; start date: October 2013

##### **ER2: Epidemiology of drugs – sewage vs. social studies**

Host institution: UA; fixed term: 2 years; start date: October 2013

##### **ER3: Development and standardization of novel sewage epidemiology approaches**

Host institution: MARIO NEGRI; fixed term: 2 years; start date: October 2013

#### **ELIGIBILITY**

---

The successful candidate must satisfy the eligibility requirements for an Early Stage Researcher under the European Commission Framework 7 Early Stage Training Scheme:

**Early Stage Researchers must be** (at the time of recruitment by the host organisation): in the first four years (full-time equivalent) of their research careers and not yet have been awarded a doctoral degree. This is measured from the date when they obtained the degree which would formally entitle them to embark on a doctorate, either in the country in which the degree was obtained or in the country in which the research training is provided, irrespective of whether or not a doctorate is envisaged

**Experienced Researchers must be** (at the time of recruitment by the host organisation): in possession of a doctoral degree, or have at least four years and less than five years of full-time equivalent research experience.

**Conditions of Mobility of Researchers:** Researchers can be of any nationality. They are required to undertake trans-national mobility (i.e. move from one country to another) when taking up their appointment. At the time of recruitment by the host organisation, researchers must not have resided or carried out their main activity (work, studies, etc) in the country of their host organisation for more than 12 months in the 3 years immediately prior to the reference date.

#### **ADDITIONAL JOB DETAILS**

---

SEWPROF combines training through research with a carefully designed, strongly interlinked and dedicated programme of research projects. These are critical in the development of high calibre scientists both in terms of skills and knowledge. 15 individual personalised but complementary research projects (falling within the frame of the research topics) defined by the network will be undertaken by 11 ESRs and 4 ERs at 16 leading European institutions. Each trainee will have a secondment and/or visits to different institutions to promote transnational, interdisciplinary and intersectoral training. Structured network-wide training courses will be provided by experts within the field and will be closely interlinked with research. Trainees will be also asked to establish their Personal Career Development Plan which will address generic, transferable and task specific skills training needs for each trainee on an individual basis.

For more details please go to: <http://sewprof-itn.eu/job-opportunities/>