

**PhD position
on
wearable medical device technology**

Personal Health Institute International, Amsterdam and Delft University of
Technology (the Netherlands)

Job description

As part of the European project EUCLOCK a PhD position is open. EUCLOCK aims to gain insight into the circadian clock and its control mechanism. The development of CLOCK-Watcher, a ubiquitous device (personal gadget, clothing etc.) for monitoring and diagnosing biological rhythms, is part of the project. CLOCK-Watcher will be used as a tool to measure the internal biological clock and implements methods to minimize misalignment. This development work spans from the basic brick and mortar of developing/integrating sensors and data-acquisition, to modelling and embedded signal processing, to intelligent sensors and product design.

A major task of the PhD researcher will be the creation of the new wearable monitoring system, CLOCK-Watcher (Central Logging of Circadian Kinetics) in co-operation with **PHI-i**. The system will record various physiological signals like EEG, ECG, together with digital diary, spectral light input, vigilance and location of the wearer. CLOCK-Watcher will be designed with input from circadian physiologists with constant routine facilities in Europe, in which the device will be tested under controlled laboratory conditions.

Requirements

Candidates should have a Master's or equivalent degree in Electrical Engineering, Biomedical engineering or Physics from an internationally recognised University. Usually only top 5%-10% graduates are considered for PhD positions. Candidates should have good communication skills and good command of the English language.

Employment conditions:

Enrolment and salary are according to the Employment Agreement Dutch Universities. Enrolment will start as soon as possible. The Ph.D. student will be appointed for a period of one year, with the possibility for an extension of 3 years. The candidate will work in Delft and Amsterdam. Travel to and longer stay (week or more) at other locations in Europe is expected.

Additional Information

For further information about the position you can contact the project leader, Anand Kumar, phone +31-(0)- 646104625, e-mail: a.kumar@somnio.nl
Or the PhD supervisor
Prof Dr. Paddy French, phone +31-(0)-152784729, email:p.j.French@tudelft.nl

Application:

Applications (including a recent curriculum vitae) should be sent to:
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