The "actibelt" is a novel telemedical device with a 3D-accelerometer hidden in a belt buckle. Together with sophisticated algorithms running on a web-platform it is at the core of our program to support the study of the alphabet and language of "human motion" as a basis for evaluating its role as both outcome measure and treatment option. Within a Marie Curie Initial Training Network we offer

2 R&D positions
in computer sciences
biomedical engineering
mathematics/physics

The succesfull applicants will work with a team of mathematicians, engineers, physicists and computer scientists in collaboration with clinicians and trial experts. The task is to develop the existing hardware and software prototypes into a stable integrated platform that can be used to perform pilot trials in the clinical setting. Eventually this should form the basis for entering a broader market, where the platform can be linked to tele-medical service centres, ambient assisted living environments and implemented into clinical trials. An open platform to share and exchange human motion data, algorithms, standards and tools will support the independent validation and continuous optimisation.

Successful applicants are familiar with one or more of the following areas:

- object oriented programming with strong Java programming skills, ideally including knowledge of related technology such as JDBC/SQL and XML.

- development of modules in large software projects in heterogeneous environments

- on-line algorithms for change-point detection, adaptive filtering, biomechanical models and knowledge of R and/or C++.

Since this position has been established under the Marie-Curie funding scheme the applicants for these post must fulfill certain eligibility criteria (please check for instance under http://www.actibelt.com/mcitncrit.pdf).

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