



COMPUTATIONAL INTELLIGENCE RESEARCH GROUP
Department of Computer Engineering Czestochowa University of Technology
is looking for enthusiastic researchers to work on a new project:
**Innovative Intelligent Data Analysis and Computational Paradigms
for Industry and Healthcare**

The main objective of the proposed research will be to solve challenging problems of artificial intelligence and, simultaneously, to apply the results in Polish industry and health care. The applications include intensive cooperation with major Czestochowa industry and health care units.

Criteria for the candidates selection:

1. Scientific achievements of the candidate (0-5 points)
2. Evaluation of the candidate (0-3 points)
 - for postdoc candidate (2 positions available, net monthly income 5000 PLN – not subject to income tax and awarded for up to four years): average of the marks obtained during the PhD studies, the mark of the final exam the mark of PhD thesis
 - for MSc candidates (1 position available, net monthly fellowship 1000 PLN – not subject to income tax): average of the marks obtained during the studies)
3. Experience in scientific activity (0-3 points)
4. Scientific fellowships and visits at foreign scientific institutions (0-3 points)
5. Presentations at conferences and workshops (0-3 points)

The MSc candidates should have background in:

- artificial intelligence
- machine learning
- computational intelligence
- soft computing
- applied mathematics and statistics
- software engineering

The candidate for the postdoc position should have:

- a) Candidate 1:
 - Ph.D. degree in bioengineering (preferably connected with hip joint endoprosthesis),
 - knowledge of biomechanics, hip joint endoprosthesis, biomaterials, new materials, composites, bone remodeling, experience in endoprosthesis design and simulations,
 - experience in numerical and experimental bone stress and strain measurement,
 - experience in endoprosthesis material assessment,
 - knowledge of artificial intelligence methods.
- b) Candidate 2:
 - Ph.D. degree in computer science,
 - knowledge of and experience in software engineering, machine learning, artificial intelligence, computational intelligence, soft computing, ensemble learning,
 - good publication record,
 - documented experience in the areas of industrial IT and data mining, experience with programming (esp. C#), data bases, OLAP, database and programming certificates from major IT companies,
 - participation in international scientific and software projects (preferably project manager),
 - good organizational skills.

Persons interested in applying for the positions should contact Professor L. Rutkowski (lrutko@kik.pcz.czyst.pl) and send by June 27, 2010, covering letter, scientific CV (including list of publications, conferences, visits at scientific institutions, etc.) and all the necessary documents concerning criterion 2. Please e-mail covering letter and CV to lrutko@kik.pcz.czyst.pl and send the documents to



INNOVATIVE ECONOMY
NATIONAL COHESION STRATEGY



EUROPEAN UNION
EUROPEAN REGIONAL
DEVELOPMENT FUND



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The final stage of the selection will be the qualification interview in English (held on June 28, 2010).