



**INNOVATIVE ECONOMY**  
NATIONAL COHESION STRATEGY



**EUROPEAN UNION**  
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DEVELOPMENT FUND



## **Stipend offer nr 10/Team/2010**

**Position:** Postdoc in “Modeling of RNA and protein-RNA complexes: from sequence to structure to function” project

**Number of stipends:** 3

**Institution :** Laboratory of Bioinformatics and Protein Engineering, IIMCB Warsaw

**Maximum period of stipend agreement:** 3 years

**Position starts on:** 01.07.2010 – bioinformatician/programmer  
01.01.2011 – experimental biochemist  
01.05.2011 – bioinformatician/modeler

**Stipend’s amount:** 6000 zł /month, where 5000 is a fellowship (not subject to income tax)

**Pension insurance:** yes

### **Key responsibilities include:**

1. All candidates will lead and execute high quality research within the program by working in close collaboration with experimentalists and bioinformaticists
2. All candidates will be expected to document their research, prepare regular reports, and present the results.
3. All candidates will coordinate and supervise the work of collaborating junior members of the team

Additionally, depending on the position:

- bioinformatician/programmer will:  
develop and use databases and computer software to study the metabolism of nucleic acids, analyze data using in-house and 3<sup>rd</sup> party methods
- experimental biochemist will:  
study the formation and function of macromolecular complexes and interactions of proteins, RNAs, and ligands  
develop and apply methods for analyzing molecular structures and functions
- bioinformatician/modeler will:

apply in-house and 3<sup>rd</sup> party methods to construct and validate models of macromolecules and their complexes  
carry out phylogenetic analyses, interpret predictions in the context of the available data, and make functional predictions

**Profile of candidates:**

1. Essential: All candidates must hold a PhD title.
2. Essential: Excellent command of English (written and spoken)
3. Essential: professional skills such as teamwork, scientific creativity and independent work

Additionally, depending on the position:

- bioinformatician/programmer:

Essential: documented experience and strong programming skills in Python and C++

Essential: experience with MySQL and in development of databases

Preferred: experience in bioinformatics analyses of nucleic acids

Preferred: experience in biological ontologies

Preferred: experience in analyses of metabolic pathways

- experimental biochemist:

Essential: documented experience in molecular biology and biochemistry of proteins and RNA

Preferred: experience in mass spectrometry of proteins and/or nucleic acids

Preferred: experience in SAXS, EM, FRET and crosslinking techniques

Preferred: experience in analyzing RNA modifications and RNA-modifying enzymes

Preferred: experience in enzymology, protein engineering

- bioinformatician/modeler:

Essential: documented experience in protein structure prediction and modeling with comparative and de novo methods

Essential: experience in molecular phylogenetics

Preferred: experience in bioinformatics analyses of RNA

Preferred: experience in macromolecular docking

Preferred: experience in working with data from SAXS, EM, FRET and crosslinking experiments.

Preferred: documented participation in CASP

Preferred: documented programming and scripting skills

**Required documents:**

1. CV in english (PDF format)
2. Motivation letter and contacts of at least two potential referees (including at least one former supervisor).

**For more details about the position please visit:** <http://genesilico.pl>

**Principal Investigator:** Professor Janusz M. Bujnicki

**Address for applications:** [iamb@genesilico.pl](mailto:iamb@genesilico.pl)

**Closing date:** 31.05.2010 - bioinformatician/programmer

30.11.2010 – experimental biochemist

30.11.2010 – bioinformatician/modeler

Please include in your offer :

"In accordance with the personal data protection act from 29 th August 1997, I hereby agree to process and to store my personal data by the Institution for recruitment purposes".

The granting institution may seek to contact the best candidates only