



**INNOVATIVE ECONOMY**  
NATIONAL COHESION STRATEGY



**EUROPEAN UNION**  
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DEVELOPMENT FUND



## **Stipend Offer nr 8/Homing Plus/2010**

**Position:** undergraduate student

**Number of stipends:** 2

**Institution :** Department of Quantum Physics, Institute of Physics, Faculty of Physics, Astronomy and Informatics, Nicolaus Copernicus, Toruń

**Maximum period of stipend agreement:** 1 December 2010-31 August 2012

**Position starts on:** 1 December 2010

**Stipend's amount:** 1000 PLN/month

**Pension insurance:** no

**Key responsibilities include:**

1. efficient implementation of dielectric screening for the tight-binding method in application for nanosystems (self-assembled dots and nanocrystals)
2. atomistic calculation of anisotropic electron-hole exchange for self-assembled InAs/InP and InAs/GaAs quantum dots
3. atomistic calculation for self-assembled dots under external strain in nanobridges

**Profile of candidates:**

1. completion of at least 3<sup>rd</sup> year in theoretical physics, computation physics, computer science or related fields
2. good marks and good motivation
3. good programming skills
4. good command in English

**Required documents:**

1. motivation letter
2. CV
3. List of exams takes and marks obtained.

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

**Principal Investigator:** dr Michał Zieliński

**Address for applications:** [michal.zielinski@fizyka.umk.pl](mailto:michal.zielinski@fizyka.umk.pl)

**Closing date:** **15 November 2010**

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