

Post-doc position

Position : post doctorate researchers (full time or part time), two positions available
Term : (i) present – March 2006, (ii) from the middle of 2004 for – up to four years,
contracts renewed on a yearly basis.

Work description:

Participate in and make significant contributions to the on-going research activities in our laboratory, furthering your future research/education activities. Those should also be interested in being exposed in Japanese culture.

On-going research activities:

Physics, materials science, and spintronics of

- (1) magnetic semiconductors,
- (2) magnetic-semiconductor hybrid nano-systems, and
- (3) non-magnetic semiconductors.

Present topics :

- (a) preparation and characterization of magnetic semiconductor heterostructures (GaMnAs quantum wells, dots, InMnAs multi-layers, etc.),
- (b) preparation and characterization of composite structures containing magnetic dots (GaAs-Fe system, etc.) ,
- (c) ultra-fast optical manipulation of ferromagnetism and photo-magnetic effect,
- (d) precise control of polarization of light with semiconductors and magnetism,
- (e) prototype device fabrication based on (a) - (d), and their application models,
- (f) development of novel detection/characterization methods for (a) - (d)

Our laboratory presently consists of one JST researcher (Ph.D), one research associate (Ph.D), four Ph.D students, five M.S. students, one B.S. student, and one technician for machine operation. Those who join our laboratory are expected to combine their strong points with our research methods and to work cooperatively with our laboratory members. We seek one or two researchers (either full time or part time.)

We request the following documents :

- (1) Curriculum vitae, (2) a list of publications, (3) reprints of three main publications, (4) statement of your motivation and ambition, and (4) name and contact information of two references.

to be sent to :

Hiroo Munekata
Professor, Imaging Science and Engineering Laboratory
Tokyo Institute of Technology
G2-804, 4259 Nagatsuta, Midori-ku, Yokohama 226-8503, JAPAN
(tel) 045-924-5185 // (fax) 045-924-5178
(e-mail) hiro@isl.titech.ac.jp