

The 1st recruitment procedure (summer 2010)
for the project
**Semiconductor nanostructures for renewable energy,
information processing and communication technologies**
project web page: www.if.pwr.wroc.pl/~machnik/TEAM

1. Available positions

4 positions for students with BSc or completed three years of studies in natural science or engineering (scholarship 1000 PLN per month);

3 PhD positions for candidates holding MSc (or equivalent) in physics or technical physics (scholarship 3000 PLN per month + 500 PLN to cover social insurance);

1 post-doc position for a young researcher holding a PhD in theoretical physics, granted not earlier than in 2006, with possible additional 2 year allowance for parental leave (scholarship 5000 PLN per month).

2. Recruitment procedure time line

Application deadline: July 2nd, 2010.

Pre-selection and invitation to the interview: July 7th, 2010.

Interviews: July 12th -13th, 2010.

Final decision: July 15th, 2010.

3. Application

The application should be sent to the project leader in an electronic form (preferred), by mail or by fax (see the project web page for contact information). Documents submitted by mail must arrive by the deadline.

Electronic submission:

All the documents must be submitted as a single compressed file (zip,bzip2,tar.gz,rar) by one of the following methods:

- By email to the project leader if the file size does not exceed 5 MB;
- Using the web form (available from the project web page) for files up to 20 MB.

The documents submitted must include:

1. The application stating the candidate's motivation and his/her particular interest in one of the proposed research topics (the list of research topics is available on the project web page);
2. CV containing the information on:
 - a) personal data,
 - b) education, professional and scientific degrees,
 - c) PhD and post-doctoral candidates: the current and past affiliations,
 - d) scientific interests,
 - e) international scholarships and fellowships and other international experience,
 - f) participation in schools and workshops,

- g) post-doctoral candidates: participation in research grants and the candidate's role therein,
 - h) other academic and research activities (if applicable),
 - i) academic awards and distinctions,
 - j) students and PhD candidates: participation in research-related student activities (student conferences, student research projects etc.),
 - k) postdoctoral candidates: summary of main scientific results obtained so far,
 - l) postdoctoral candidates: information about supervised Master projects (if applicable, depending on the country of origin);
3. List of publications and conference presentations;
 4. Students and PhD candidates: preprints (or, preferably, references to open access repositories) of submitted papers and proofs of conference contributions if applicable (preprints of unpublished papers will be treated as confidential and will be deleted, destroyed or returned to the applicant after the conclusion of the recruitment process);
 5. The diploma confirming the highest professional title or academic degree obtained so far or a document confirming completion of 3 years of academic education;
 6. A document stating the academic achievements, that is:
 - students: average grade obtained during the studies so far,
 - PhD candidates: the final grade obtained at graduation, including the average grade from taught subjects, final examination grade and the grade obtained for the MSc thesis,
 - post-doctoral candidates: average grade from subjects taught during PhD studies (if applicable, depending on the country of origin), the grade obtained in the PhD examination (if specified), distinction "cum laude" if achieved;
 7. PhD and post-doctoral candidates: letter of recommendation from the supervisor of the last professional or academic degree; post-doctoral candidates can additionally include a letter from the head of the current research group; students can optionally present a letter of recommendation from a supervisor of their BSc project or other students' research project.

Important: The letter of recommendation should be sent (by email, fax or mail) directly to the project leader or attached in a sealed envelope (if the application is submitted by mail). The name(s) of the recommending person(s) should be stated in the application. Please arrange for the letter(s) to arrive before the deadline. We advise the applicant to inform the recommending person(s) about the importance and expected content of the recommendation letter, as follows from the selection criteria.

Photocopies or scanned copies of documents 5 and 6 will be accepted as part of the application but originals must be presented before the contract is signed.

4. Selection criteria

The selection committee evaluates the applications assigning up to 70 points to each candidate. If the number of received applications is large, the committee may pre-select candidates based on the evaluation of applications. For the interview, a candidate can obtain up to 30 points. Each committee member evaluates each applicant (except for situations of conflict of interests); the final result is calculated as the average of the notes assigned by all the members. The detailed criteria are as follows:

1. Formal (Yes/No)
 - a) the application is complete,
 - b) the application was submitted before the deadline,

- c) the candidate is eligible for a given position (current academic status, degrees obtained, time elapsed since PhD defense)

2. Application evaluation (max. 70 points)

a) Students:

- i. Academic record, max. 35 points;
for students of Polish universities, A being the average grade:
0 points if $A \leq 4,0$,
 $30 \cdot (A - 4,0)$ points if $4,0 \leq A < 5,0$,
30 if $A \geq 5,0$;
for foreign students the committee will translate the grade to the Polish scale;
up to 5 point are additionally granted if the student has followed an individual course of studies or has made other effort to extend his studies beyond the standard curriculum, including participation in schools and workshops.
- ii. Scholarships or internships, max. 20 points;
20 points if the student has carried out a period of studies abroad (minimum 1 semester);
10 points if the student has carried out a shorter period of studies or an internship abroad;
5 points if the student has taken an internship at an institution in his/her home country.
- iii. Research activity, max. 15 points; based on the committee evaluation of the activity, including recommendation letters from supervisors;
Not more than 5 points if the activity was limited to participation in students' projects or students' research circles;
Not more than 10 points if the activity included presentation at a students' conference or similar event;
Up to 15 points if the activity led to submission of a scientific paper (preprint required) or presentation at a research conference (proof required).

b) PhD candidates:

- i. Academic record, max. 25 points;
for graduates of Polish universities, G being the final grade obtained at graduation (including the average grade from the courses, examination grade and the grade for the thesis):
0 points if $G \leq 4,0$,
 $15 \cdot (G - 4,0)$ points if $4,0 \leq A < 5,0$,
15 if $G \geq 5,0$;
for foreign students the committee will translate the grade to the Polish scale;
up to 10 points are additionally granted if the student has followed an individual course of studies or has made other effort to extend his studies beyond the standard curriculum, including participation in schools and workshops.
- ii. Scholarships or internships, max. 20 points;
20 points if the student has carried out a period of studies abroad (minimum 1 semester);
10 points if the student has carried out a shorter period of studies or an internship abroad;
5 points if the student has taken an internship at an institution in his/her home country.
- iii. Research activity, max. 25 points; based on the committee evaluation of the activity, including recommendation letters from supervisors;
Not more than 5 points if the activity was limited to participation in students' projects or students' research circles;
Not more than 10 points if the activity included presentation at a students' conference or similar event;
Not more than 15 points if the activity led to submission of a scientific paper (preprint required) or presentation at a research conference (proof required);

Up to 25 points if the candidate has co-authored a paper in a peer-reviewed scientific journal (proof of acceptance is required for papers in print); the number of points granted depend on the candidates' contribution to the paper which should be specified in the supervisor's letter of recommendation.

c) post-doctoral candidates:

i. Academic record, max. 15 points;

for holders of the Polish degree:

up to 10 points depending on the average grade obtained from taught courses and/or the final grade achieved at the PhD examination (whichever is explicitly specified);

5 additional points for "cum laude" distinction;

for holders of a foreign degree, the selection committee will search for a possibly analogous rule in each individual case.

ii. Scholarships or internships, max. 15 points;

15 points if the candidate has carried out a period of studies or a research project abroad (minimum 1 semester);

10 points if the candidate has carried out a shorter period of studies or an internship abroad;

5 points if the candidate has taken an internship at an institution in his/her home country.

iii. Research activity, max. 35 points;

Publications: up to 20 points,

Active participation in conferences: up to 5 points

Participation in research projects: up to 5 points,

Participation in research schools and workshops: up to 5 points.

iv. Other academic activities, max 5 points;

Candidate's activities which show his/her potential to achieve independence in scientific research and academic activity:

Up to 3 points if the candidate has been engaged in administrative tasks;

Up to 5 points if the candidate has supervised or co-supervised (depending on the rules in the country of origin) MSc or BSc students.

3. Interview (max. 30 points);

a) Students and PhD candidates:

i. the general background in physics, max. 15 points (the candidate will be asked a few questions concerning the most general and fundamental concepts in physics);

ii. presentation of scientific interests and research activity, max. 7 points;

iii. English language skills, max 8 points;

b) Post-doctoral candidates:

i. presentation and discussion of the candidate's scientific results, max 20 points;

ii. English language skills, max 10 points;