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TM "World Open Laboratories"

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Professional training and internship for high school
and university students in the best companies
and laboratories of the world

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Since 2017

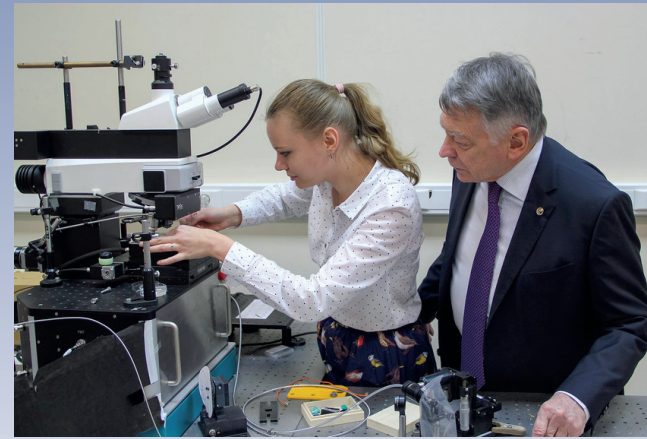
The unique opportunity to achieve students' dream to
work with prominent scientists and professionals
has now become real thanks to the initiative expressed by
ALBION Company, Moscow. There are well-known
universities, laboratories, the Russian Academy of Science
institutes, global financial, industrial and IT companies



Organization of a specialized internship in leading research institutions, companies or universities, is a very demanding task. To become an intern in a reputed laboratory, supervised by a wellknown professor, is rather hard even for promising students of the home university, not to mention external undergraduates and high school students. At the same time, the importance of a high quality vocational training, including for the job placement purposes, is well realized by the students and their parents.

Work in an outstanding scientific, engineering or economic school is a priceless privilege, pushing the student towards more deliberate study of theoretical disciplines, improving their analytical thinking, making them acquainted with work in a team of intellectuals, modeling a self-sufficient and enthusiastic person.

Together with the chance to take the first steps in their professional careers and become almost equal participants of the most current research and development, interns enrich their CVs and get a chance to participate in scientific publications. *With the assistance of scientists and professionals of international level, students are much quicker to gain experience and knowledge that cannot be obtained in a standard curriculum.*



Academician Alexander Sigov with an intern, «Open World Labs»

IT & PROGRAMMING INTERNSHIP

- *Would such an internship be useful for high school students? Does their level of knowledge allow them to take part in serious work? Moreover, how justified are the required time and effort, in this case?*

- I believe this is worth doing. At school, they mainly receive theoretical knowledge, but here they have an opportunity to try themselves in a particular field, - that of IT- in our case. They get into a real job rhythm, understand what they are doing and why, as well as feel the demands of living and working in a large enterprise. Finally, it becomes clear whether this is a profession for their future, or if it's better to look for something else.

- *Can a student or a postgraduate, particularly from a foreign university, get remote access to perform tasks on a supercomputer?*

- Yes, and they often do. All students of the faculty of computing mathematics and cybernetics of MSU are required to perform several practical tasks, using a supercomputer. The interns get this access, as well. I think that during the combined full-time and remote practice, the students will have tasks, which will help to understand the principles of this machine's operation and feel its capabilities. The supercomputer aims to help someone in achieving the necessary result, sooner. It makes it possible to calculate faster, more precisely, in a more realistic setting, and therefore it lets you overtake others. It is an instrument, providing competitiveness, and should be used.

(extracts from an interview of Vladimir Voevodin, a professor and a corresponding member of The Russian Academy of Sciences, Deputy Director of the Scientific Research computing center of MSU, published in FORBES LIFE, Autumn 2018)

MECHANICAL ENGINEERING INTERNSHIP

«We have provided an intern from the Manchester University with a unique opportunity to get the quintessence of knowledge, which is usually given within a year, in less than two months.... He will capture the most interesting events - the final Assembly of the car, the test cycle and the competition itself in the Czech Republic and Germany, to which he will go with us as a guest of the team” - *said the head of the team “Formula – Student”, Professor of the Bauman Moscow State University Dmitry Onishchenko in an interview with the Russian TASS News Agency on 20.06.2017*



Every training/internship is an individual project, adapted to the student's level of knowledge; conducted according to the personalized participant's request and his curator's requirements. The candidates are accepted for training under allocated quota and on a paid basis, according to the recipient's conditions and provider's charges.

MOLECULAR GENETICS INTERNSHIP

- *Does such work have any practical benefit for you?*

- We shouldn't expect a practical result from a student or a schoolboy during a short period of an internship. Nevertheless, their work is carried out within the framework of existing projects, and they collect data, alongside the scientists. So, they do make some contributions. However, we shouldn't forget that, above all, they take the internship in order to learn, and the benefit is seeing their eyes light up, and their efforts becoming fruitful....

...We are ready to accept Russian and foreign high school and university students for summer internship as well as for longer-term internship throughout the academic year. It is important for a scientist that his research is implemented, and knowledge is passed on to a new generation. Therefore, the benefit of such a project for us is the transfer of knowledge and experience. The result may not be visible immediately, but it certainly works for the future. *(Extract from an interview of Sergey Bruskin, Deputy Director of the Institute of General genetics of The Russian Academy of Sciences)*

The procedure for organizing and holding undergraduate training/internship:

- Early application (mailing CV and motivation letter) to “World Open Labs”: within a year or earlier if you would like to compete for a place in highly ranked laboratories/companies.
- “World Open Labs” searches for suitable variants of internship under allocated quota in accordance with the request, student's qualification and terms of the existing contract.
- The student is interviewed by the head of laboratory/company to preliminary confirm appointment.
- The laboratory/company negotiates exact dates and costs of the training/internship as well as other essential conditions with the students.
- The student (sponsor) pays the invoice issued in

accordance with terms and conditions of the contract signed with a laboratory/company.

- The laboratory/company provides the student with a research advisor and personal curator to prepare for training/internship, to be educated and supported during training/internship, to keep track of the student's educational development before and after training/internship.
- The student performs the agreed task, discusses the work results with the research advisor/personal curator and receives a detailed report/certificate upon completion of the training/internship.
- Successful students can be enrolled into candidates pool or (in respect to laboratories) to act as a contributing author of the research article based on performance and to continue cooperation with the laboratory.

“Nowadays internships are full-time additional education, and others are even reached to a second higher education... For example, we provide students a unique opportunity to work under the leadership of famous people. So, in the framework of the summer practice this year IT, economics, chemistry, physics students trained in such areas as «New organic and inorganic nanomaterials for use in Biomedicine», «Modeling of quantum cryptography on a supercomputer» and others...” *said Valentin Shchukin, Head of Albion Educational Company in an interview, published in TATLER, September 2018.*

Main features of internships with “World Open Labs”:

- Period: summer (3-8 weeks) or all year round;
- Selective laboratories, themes, famous advisers;
- Fees calculated on individual basis; Internships - 2018 cost from 1200 – 1800 USD per week (price without accommodation and meals).

- Entry Visa (if need): study permit (such as TIER4) for most countries
- Result: Certificate and Report of the Research Supervisor for enrichment of a personal CV. A chance to participate in scientific publications or a job invitation in case of success.