

Physics

Cycle	XXXIV
Director	Prof. Vincenzo Guidi - Dipartimento di Fisica e Scienze della Terra – vincenzo.guidi@unife.it
Duration	3 years
Partner Institution	Italian Institute for Nuclear Physics (Istituto Nazionale di Fisica Nucleare – INFN) H.Niewodniczański Institute of Nuclear Physics Polish Academy of Sciences (IFJ PAN), Kraków, Poland
Research Topics	http://www.unife.it/studenti/dottorato/corsi/riforma/physics
Qualification required for admission	Italian degree known as “Laurea specialistica/magistrale” or a degree awarded prior to approval of Ministerial Decree D.M. n. 509 of 3 November 1999, updated with D.M. n. 270 of 22 October 2004, n. 270; Master’s (second level) degree, or an equivalent foreign academic qualification awarded abroad.

Available Positions

Positions with Scholarship	Regular positions	10
	Reserved positions for Candidates coming from foreign Institutions	1
Positions without Scholarship	Regular positions	1
	Reserved positions for Candidates coming from foreign Institutions	1
Positions reserved to candidates belonging to specific categories	Reserved positions for employees of Institutes and public Research Centers active in high qualification activities (with salary keeping)	1
	Reserved positions for candidates holding a foreign government scholarship or a scholarship funded by international mobility programmes	2
Total number of available positions:		16

Kind of Financial Support

N°	Financial support	Research Topic
3	Università degli Studi di Ferrara	-
2	National Institute for Nuclear Physics (Istituto Nazionale di Fisica Nucleare – INFN)	-
1	Funded with European Social Fundings of the Operational Programme 2014/2020 Regione Emilia-Romagna: High Competences for Research, for Technology Transfer and Business	Development of a personalized dosimetry system for radiometabolic therapy
1	Funded with European Social Fundings of the Operational Programme 2014/2020 Regione Emilia-Romagna: High Competences for Research, for Technology Transfer and Business	Development of photovoltaic ventilated facade for the control of buildings thermal budget.
1	National Institute for Nuclear Physics (INFN – Legnaro Laboratory)	Nuclear Physics and Nuclear Technologies
1	In cooperation with Fondazione Bruno Kessler	Research and development of nanostructured materials for gas sensing
1	Co-funded by IMM-CNR - Università degli Studi di Ferrara	Silicon carbide microelectronics and sensors applications
1	Co-funded by Institut für Kernphysik Forschungszentrum Jülich - Università degli Studi di Ferrara	Search of Electric Dipole Moment in Storage Rings
1	National Institute for Nuclear Physics (INFN – Legnaro Laboratory) (Reserved positions for employees of Institutes and public Research Centers active in high qualification activities -with salary keeping)	

Assessment Criteria

Evaluation of qualification: maximum score 20 points. Minimum score required to be admitted to the interview 12/20	
Interview: maximum score 60 points (including the foreign language examination). Minimum final score required: 60/80	
During the interview, applicant’s knowledge of the following languages will be tested.	English
Possibility of videoconference for candidates residing abroad (e.g.: Skype, Adobe Connect, GoToMeeting).	Yes

List of documents for the evaluation

Curriculum vitae et studiorum	Mandatory documents: Complete academic career information, a list of examinations and grades and final mark, for Bachelor and Masters	Up to 12 points
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	degrees. Thesis abstract (max length 2 pages), with the following structure: motivation, research methodology, obtained or expected results and bibliography. Only for undergraduates students the abstract must be signed by the supervisor.	
Scientific publications	Mandatory documents: Publications in extenso peer reviewed, including abstracts and/or papers presented in national or international congress OR File containing the full list of the publications with associated link.	Up to 3 points
Reference letters	Maximum 3 letters supporting the Candidate's application, written and signed by professors, researchers or professionals, expert in the course's topics and working at public or private research facilities.	Up to 3 points
Others academic or professional qualifications	Certified working experiences in the field. Others academic qualifications	Up to 2 points

Interview

Verification of knowledge on the subject of the Doctoral Research topics and Candidate's linguistic skills.

Examination timetable

Evaluation of qualifications and interview will take place in September, within the deadline set on September 25th, 2018.

Evaluations' results may be checked at the following link: <http://www.unife.it/studenti/dottorato/concorsi/selection>
The beginning date for consulting the evaluations' results and the interview schedule will be available within the present call deadline at the following page <http://www.unife.it/studenti/dottorato/concorsi/commissioni>