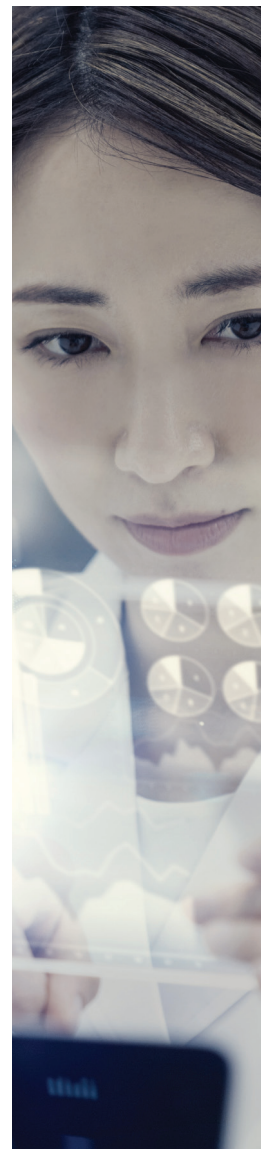
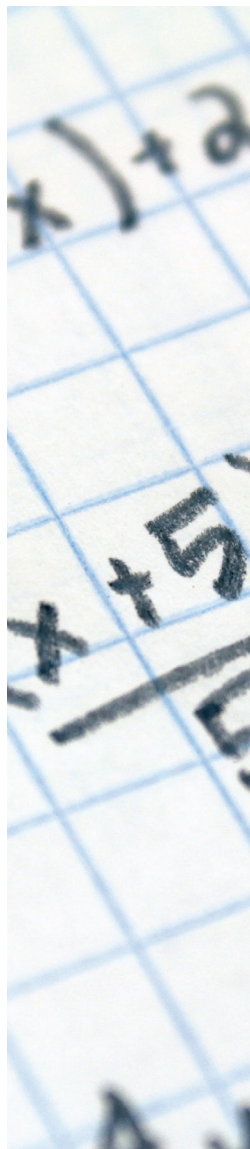
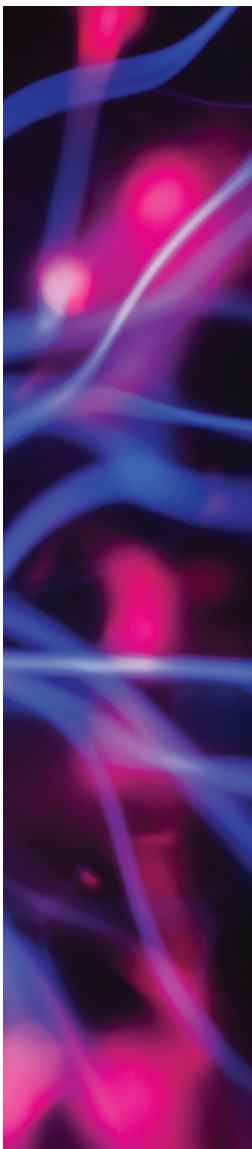




SORBONNE
UNIVERSITY
ABU DHABI

The Career Centre

What can I do with a major in Physics



Where do Physicists work?

Below is a non-exhaustive list of available job sectors and career options after a Bachelor degree in Physics, depending on graduates' interests, experience and further studies.

Space Exploration Industries

- Astronaut
- Astrophysicist
- Astronomer
- Satellite engineer
- Space flight director
- Gravity researcher
- Geophysics – space project scientist

Energy, Renewable Energy, Climate, Environnemental Sciences

- Climate scientist
- Coastal scientist
- Ice scientist
- Laser fusion scientist
- Nuclear engineer
- Petroleum engineer
- Physicist-policy analyst
- Renewable energy manager
- Solar energy physicist
- Weather forecast specialist
- Wind analyst

Healthcare Sciences, Medical & Biomedical Physics Activities

- Acoustic consultant
- Alzheimer researcher
- Clinical scientist
- Medical physicist
- Nuclear medicine / medical radiation technologist
- Radiation protection practitioner
- Radioactivity specialist
- Physical chemistry scientist
- Ultrasound, magnetic resonance, optical imaging
- Nanoscale imaging scientist

IT, Telecoms, Engineering Computer Sciences

- Artificial intelligence software developer
- Computer programmer
- Software engineer
- Web designer, Web developer
- IT consultant
- Systems analyst

Legal, Business, Finance & Consulting

- Actuary
- Business data analyst
- Solicitor
- Intellectual property officer (Specialist in energy, industrial, space, innovation)
- Associate consultant

Communication, Television, Media, Sports and Games

- Science journalist, science communicator
- Sound engineer
- TV science advisor
- Video producer, TV producer
- Games designer, games developer
- Technical writer

Industry, Construction, Buildings and Structures

- Architect
- Structural engineer
- Tunnel engineer
- Laser engineer
- Electro-optic engineer
- Prototype engineer
- Yacht engineer

Transport

- Material scientist
- Mechanical engineer
- Radar project manager
- Radar system designer
- Transport planner

Education & Research, Applied Research

- High school physics, astrophysics teacher
- High school science teacher
- Higher education lecturer
- Research technician, lab technician, lab assistant
- Solar thermal research physicist
- Material physics researcher
- Nanotechnology researcher

Further studies options

A whole range of postgraduate studies are available after a Bachelor degree in Physics. Examples of areas of specialisation (Master and PhD) include:

- Physics and Applications (13 specializations are available at Sorbonne University, Paris)
- Engineering
- Science of the Universe, Environment and Ecology (8 specializations available at Sorbonne University, Paris)
- Knowledge Management and Innovation
- Water and Environmental Engineering
- Biomedical, medical engineering
- Neurosciences
- Medical Physics
- Astronomy and Astrophysics

Where do SUAD graduates go following a Bachelor degree in Physics?

The following non-exhaustive list of institutions is based on SUAD placement records for alumni of the Physics department.

- Sorbonne University (France)
- Masdar Institute for Science and Technology (UAE)
- EFREI Paris (France)
- King's College London (UK)
- Imperial College London (UK)
- University of Amsterdam (Netherlands)
- Texas A&M University (US)

Postgraduate admission requirements in terms of eligible and relevant undergraduate degree vary widely from country to country and from one higher education institution to another. Candidates may refer to the admission requirements applicable to each institution.

Best career exploration websites for students

onisep.fr
letudiant.fr
fichemetier.fr
studyrama.com
prospects.ac.uk
mymajors.com
targetjobs.co.uk
thebalancecareers.com
learnhowtobecome.org
careertools.com
careers.un.org
apec.fr
cea.fr
physics.org
physicsworld.com
iop.org
aps.org
sepnet.ac.uk
space.com
eps.org
ipgp.fr/fr

For more information, please contact:

The Career Centre
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Email: careercentre@sorbonne.ae

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What do SUAD alumni do?

"Studying my undergraduate degree in Physics at Sorbonne University gave me a solid background in science, mathematics and critical thinking, enabling me to pursue a career in scientific research and development. During my summers as an undergraduate researcher at NASA's Jet Propulsion Laboratory, I studied the composition and temperature of Jupiter's atmosphere by analyzing images of the planet taken by the Hubble Space Telescope. During my master's degree I investigated the effects of metals additive manufacturing on widely used aerospace alloys. As a PhD student at Texas A&M University, I am leading a project sponsored by the US Army Research Office to design new alloy systems suited to additive manufacturing. I have also had the opportunity to work at the US Air Force Research Laboratory leading a project on additive manufacturing of a newly developed ultra-high strength steel."

Raiyan Seede

"Sorbonne University's Physics program provides an excellent opportunity for young students who are willing to seek to be a part of a community of scientists solve the problems of today and tomorrow. A BSc degree in physics is a very versatile credential, and can easily be brought to bear in many other fields of science. My bachelor degree, which covers the significant modules in physics, engineering and mathematics, has given me the right set of skills to narrow down a field that I have always been passionate about pursuing as well as led to my acceptance into a strong graduate program in Biomedical Engineering at Imperial College London. I am now able to translate sciences produced in our labs into the next generation of diagnostic machines that can be used by patients. My latest research experience as a postgraduate was with the Hamlyn Centre for Robotic Surgery and Surgical Guidance. All in all, the department of Physics at Sorbonne University provided me with a fantastic education, lifelong friends, and an early exposure to current cutting edge research."

Fadia Trache

"The Bachelor degree in Physics gave me a plethora of critical advantages; a few of them being a strong scientific background both in mathematics and physics, critical thinking, versatility and the ability to quickly assess situations. All of these perks allowed me to demarcate myself when applying for both internships and additional studies. One of the major points of that degree was ability to experience prestigious internship, such as in multinational companies such as Total and Schneider or acclaimed universities such as New York University. During my NYU internship I studied astrophysics and the variability of super massive Stars, to understand how these stars behave through massive data influx and what their surrounding are experiencing. These numerous experiences allowed me to build a professional yet critical demeanor that is highly recognized and looked up by graduate schools. This major was extremely beneficial due to its versatility; it allowed me to go for my dream field, Computer Sciences, and more precisely Cybersecurity. As an engineer student, my unique profile allowed me to apply for prestigious schools such as Polytechnic (L'X) and Central Sup and going for multiple masters at the same time."

Kevin D. Yaker

