Physics is the study of laws that govern the behaviour and interaction of energy and matter. It encompasses the entire physical universe and everything in it.

**Key Skills & Knowledge**

**Analytical:** Organize, analyze and interpret scientific data; compare and contrast ideas and information; articulate and analytical; careful attention to detail.

**Technical:** Computer simulation/modeling; laboratory techniques; operation of scientific equipment and safety procedures; programming and systems analysis skills.

**Communication:** Preparing technical or research reports; synthesizing complex information to present ideas and data clearly.

**Organizational:** Conceptualize and implement projects a and meet deadlines; observation and decision making skills.

**Critical thinking:** Critical thinking and problem solving.

**Research:** Utilize survey research methods research skills; defining problems and developing research designs and models; curiosity, imagination, and creativity; provide relevant perspectives ability to make projections.

**Mathematical and observational skills:** Utilize the appropriate mathematical formulas to perform calculations.

**Sample Job Titles**

Some of these roles may require further training, certification or education. Check out the Alberta Government’s occupational profiles for salary info and more detail: [alis.alberta.ca/occinfo](alis.alberta.ca/occinfo)

- Aerospace Research Scientist
- Astronaut
- Astronomer
- Astrophysicist
- Biophysicist
- Computer Programmer
- Environmental Analyst
- Environmental Health Specialist
- Geneticist
- Inorganic Analyst
- Laboratory Technician
- Occupational Health & Safety Specialist
- Physicist
- Quality Assurance Assistant
- Research & Development Scientist
- Science Laboratory Technician
- Systems Analyst
- Teacher/Professor
- Technical Writer

**Need help deciding what to do?**

Formal Career Assessments like the Strong Interest Inventory and the Myers Briggs Type Indicator can be helpful tools for your career development. Request an assessment via [CareerLink](#)
Potential Industries

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Associations & Professional Development

Associations provide an opportunity for continued professional development. Many also offer networking opportunities and other events for their members.

- American Institute of Physics: [www.aip.org](http://www.aip.org)
- Canadian Association of Nuclear Medicine: [www.canm-acmn.ca](http://www.canm-acmn.ca)
- Canadian Association of Physicists: [www.cap.ca](http://www.cap.ca)
- Canadian Astronomical Society: [www.casca.ca](http://www.casca.ca)
- Canadian Nuclear Society: [www.cns-snc.ca/](http://www.cns-snc.ca/)
- Canadian Organization of Medical Physicists: [www.comp-ocpm.ca](http://www.comp-ocpm.ca)
- Rothney Astrophysical Observatory: [www.ucalgary.ca/rao](http://www.ucalgary.ca/rao)
- TRIUMF - Canada’s National Laboratory for Particle and Nuclear Physics: [www.triumf.info](http://www.triumf.info)

Career Services

**YOUR FUTURE STARTS HERE**

- Career Planning
- Job Search Support
- Resume Reviews
- Career Workshops
- Online Job Postings
- Career Fairs
- Networking Events
- Information Sessions & much more!

**Connect with us:**

MacEwan Student Centre, Room 188
T: 403.220.8020
E: csstdnt@ucalgary.ca

CareerLink: [ucalgary.ca/careers](http://ucalgary.ca/careers)

@HireUCalgary

Job Boards

- Indeed: [https://ca.indeed.com/](https://ca.indeed.com/)
- Canadian Association of Physicists: [careers.cap.ca/careers](http://careers.cap.ca/careers)
- Institute of Physics: [www.iop.org/careers](http://www.iop.org/careers)
- Physics Today: [jobs.physicstoday.org/](http://jobs.physicstoday.org/)
- LinkedIn: [www.linkedin.com](http://www.linkedin.com)

CareerLink: [careerlink.ucalgary.ca](http://careerlink.ucalgary.ca)

Additional Resources

- Careers in Physicists by American Institute of Physics
- Careers in Focus: Mathematics & Physics by J.G. Ferguson Publishing Company
- Careers in Science by Thomas A. Easton
- Landing Your First Job: A Guide for Physics Students by American Institute of Physics

Faculty Contact
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T: 403.220.5385
E: office@phas.ucalgary.ca
W: [phas.ucalgary.ca](http://phas.ucalgary.ca)
W: [ucalgary.ca/admissions/programs](http://ucalgary.ca/admissions/programs)

Student Clubs

Physics and Astronomy Students’ Association
[ucalgary.ca/~physastr](http://ucalgary.ca/~physastr)

Aligned Majors:
- Astrophysics, Environmental Science
- Natural Sciences, Mathematics