Biomedical Engineering, Bachelor of Science

Biomedical engineers are professionally trained to combine the rigors of medical and biological studies with the power of engineering analysis and design. Students choose biomedical engineering to be of service to others, to enjoy the excitement of understanding living systems, and to use state-of-the-art science and technology to solve the complex problems of medical care.

The emphasis in biomedical engineering is on finding solutions by researching, testing, and applying medical, biological, chemical, electrical, and materials information. With so many areas of specialization within the field, graduates are encouraged to further their education by attending graduate or professional school.

What you can be with your Biomedical Engineering, Bachelor of Science:

<table>
<thead>
<tr>
<th>Clinical Engineer #2148</th>
<th>Physicist #2111</th>
<th>Sport Medicine #3111</th>
<th>Biologist #2121</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Engineer #2134</td>
<td>Engineering Physicist #2148</td>
<td>Industrial Engineer #2141</td>
<td>Physician #3112</td>
</tr>
<tr>
<td>Mechanical Engineer #2232</td>
<td>Biomedical Engineering Technologist #2241</td>
<td>Design Engineer #2132</td>
<td>Manufacturing Engineer #2141</td>
</tr>
<tr>
<td>Applications Engineer #2173</td>
<td>Plant Engineer #2141</td>
<td>Sales Engineer #6221</td>
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</tbody>
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Potential employers:

<table>
<thead>
<tr>
<th>Advertising Agencies</th>
<th>Magazines/Newspapers</th>
<th>Libraries</th>
<th>Law Firms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Book Publishers Theatres</td>
<td>Public Relations Firms</td>
<td>Medical Institutions</td>
<td>Educational Institutions</td>
</tr>
<tr>
<td>Engineering Firms</td>
<td>Government Agencies</td>
<td>Non Profit Organizations</td>
<td>Radio and TV Communications</td>
</tr>
<tr>
<td>Accounting Firms</td>
<td>Insurance Agencies</td>
<td>Hospitals</td>
<td>Financial Service Companies</td>
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</table>

This career/job listing is only a sample of the possible career options; these are certainly not the only career/job options accessible with this degree/diploma. Some of the careers listed require further education.

For career information, enter the four digit number listed below in the Alberta Learning Information Services Website (www.alis.alberta.ca) or the National Occupational Classification Website (http://www5.hrsdc.gc.ca/NOC/).

RDC Career Services can help you explore your interests, identify your goals, discuss your career options and job search strategies and discover how to make the most of your education. Email or give us a call to connect with a career counsellor.

RDC Department Information: Biomedical Engineering, Bachelor of Science rdc.ab.ca/programs/sciences
WHAT CAN I DO WITH MY CREDENTIAL? | BSC - Biomedical Engineering

Major Skills Obtained from a Biomedical Engineering, Bachelor of Science Degree Program

- Able to solve complex problems
- Ability to search for better ways to solve problems
- Superior critical thinking
- Able to use scientific rules and methods to solve problems
- Great judgment and decision making skills
- Active listener
- Able to analyze needs and product requirements to create a design
- Great communication skills, able to convey information effectively

Able to use mathematics to solve problems
Able to determine how a system should work and how changes in conditions will affect outcomes
Great deductive and inductive reasoning skills
Able to detect when something is wrong or is likely to go wrong
Able to arrange things or actions in a certain order or pattern according to a specific rule or set of rules
Superior organizational skills
Superior creativity skills

Professional Associations and Sites of Interest

- Engineering Institute of Canada [http://www.eic-ici.ca/](http://www.eic-ici.ca/)
- Canadian Medical and Biological Engineering Society [http://www.cmbes.ca/](http://www.cmbes.ca/)
- Association of Science and Engineering Technology Professional of Alberta [http://www.aset.ab.ca/pages/home/default.aspx](http://www.aset.ab.ca/pages/home/default.aspx)
- Biogenie Srdc Inc. [http://www.englobe-remediation.co.uk/s_83.asp](http://www.englobe-remediation.co.uk/s_83.asp)
- Canadian Hydro Developers, Inc. [http://www.transalta.com/careers](http://www.transalta.com/careers)
- Isotechnika Inc. [http://www.isotechnika.com/employment](http://www.isotechnika.com/employment)
- Aitec (Western) Inc [http://www.aitec.ca/team_employment.htm](http://www.aitec.ca/team_employment.htm)
- Northland Energy Corporation [http://www.northlandpower.ca/WhoWeAre/Careers/UniqueCareers.aspx#m=1&s=5](http://www.northlandpower.ca/WhoWeAre/Careers/UniqueCareers.aspx#m=1&s=5)