BECOME A
BUILDING SERVICES ENGINEER
Design, build and innovate with building services engineering

A guide for university students in Australia and New Zealand
WHAT IS BUILDING SERVICES ENGINEERING?

Building services engineering offers the potential to build a rewarding career in a sector that is growing in importance and opportunity.

Building services transform the way in which we experience buildings. The services – lighting, heating, lifts, security systems and a host of other technologies – are key to making buildings comfortable and safe for people living and working in them.

It is building services engineers who enable buildings, from homes to hospitals, to function efficiently. They design systems to help manage infection risk in operating theatres, crowds in football stadiums and security in airport terminals. It’s their job to ensure these systems operate effectively, sustainably and unobtrusively and blend with the architectural design of the building.

Building services engineers generally work in teams, alongside other built environment professionals to deliver projects for clients. Those clients may be major industries or businesses, global property companies, local authorities or other building owners, such as universities.

Energy consumed in the buildings sector accounts for 20% of the total delivered energy consumed worldwide. Building services engineers therefore have a key role to play in helping us, and our buildings, use natural resources wisely. They help buildings and occupants tackle the new and emerging challenges presented by major issues including global urbanisation, our changing climate and cybersecurity.

*Based on Connexus TYPICAL Recruitment 2022 Salary Guide*

Become a Building Services Engineer
By becoming a building services engineer, you’ll have the chance to develop a range of skills and talents, realise your potential and pursue career opportunities in Australia, New Zealand and overseas. At the same time, you’ll have the satisfaction of knowing that you’re making a difference to the way people live and work in buildings, and to the environment.

Construction is a global industry, so it is fairly commonplace for building services engineers to travel not only across Australia and New Zealand, but also further abroad for business. Opportunities could range from working on skyscrapers in Dubai or the USA, to meetings with manufacturers in Germany or China to discuss innovative environmental technologies for buildings.

The industry has many career paths, progressing through such roles as project engineer to senior manager, director or partner – or you may want to establish your own business. Building services engineering offers you the chance to pursue your career goals.
HOW THEY GOT THERE

SIAN WILLMOTT  
Principal Sustainability Consultant

Career path: Studied full time at Victoria University (Bachelor of Architectural Engineering); before starting a career at a global multidisciplinary consultancy as a sustainability consultant. Has worked as a sustainability consultant for the last 8 years.

Sian says: “My role is diverse; and opportunities ever changing; I love working with clients to help them understand how they can make a positive influence on people and places.”

JERRIN PIUS  
Mechanical Engineer – Building Services

Career path: Studied BE(Hons) in Mechanical Engineering at The University of Auckland. I discovered the potential of Building Information Modeling (BIM) in construction and thus I was captivated into building services.

Jerrin says: “The role we play has a significant impact on the lives of everyday people. As we live in a fast-moving society, it encourages us to be innovative problem solvers, which is what I like about building services.”

IAN VAN EERDEN  
Group Manager Sustainability

Career path: Studied renewable energy engineering and worked in compliance and policy for government before moving into building services consultancy and sustainability.

Ian says: “I love my job because I get to see how my involvement in projects helps solve problems and make buildings perform better, environmentally, socially and economically.”

TYPICAL WORKING LIFE

The work of a building services engineer may typically include:

- Scoping out a new building project with its architects
- Solving engineering problems using latest design, modelling and visualisation software
- Presentations to potential and existing clients
- Guiding an installation team on site
- Managing the operation and maintenance of building services in a completed facility
- Site visits to see how designs are working in practice

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### APPLY FOR STUDENT MEMBERSHIP

Apply online at: [www.cibse.org/ANZstudent](http://www.cibse.org/ANZstudent)

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I am studying  

- [ ] Full time  
- [ ] Part time

NB. Fee applies for P/T students. If P/T is selected we will email a form for credit card payment.

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<th>University or College</th>
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<td>Electrical Engineering</td>
<td>BEng (Hons)</td>
<td>01.03.2018</td>
<td>3 years</td>
<td>01.12.2020</td>
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### APPLICANT’S DECLARATION

I certify that the information in this application and supporting documents is correct.

Signature

Date **DD** / **MM** / **YY**

NB. In the event of it coming to light that information supplied on this form is inaccurate, CIBSE reserve the right to withdraw membership of the Institution and discipline the applicant under the Code of Professional Conduct.

### DATA PROTECTION PREFERENCES

The information you provide in this application will be used by the Chartered Institution of Building Services Engineers (CIBSE) and CIBSE Services Ltd for management of your membership of the institution, its Societies (divisions), Groups and Networks, and provision of services which are included in the benefits of membership. Upon being accepted in to membership CIBSE will communicate to you about related member benefits and services via email, you can manage your preferences at [www.cibse.org/mycibse](http://www.cibse.org/mycibse) and you can opt out at any time. If you are happy for CIBSE to contact you by other methods please opt in below:

- [ ] Post
- [ ] Phone
- [ ] SMS

For more information on how we use your data and the procedures we have in place to safeguard it please visit [www.cibse.org/privacy](http://www.cibse.org/privacy)

Please submit your application via email to membership-apps@cibse.org

Registered Charity No. 278104

Become a Building Services Engineer 5
The Chartered Institution of Building Services Engineers (CIBSE) is the professional body for building services engineers and accredits some degree courses. You can start your route by studying in an engineering discipline and applying for CIBSE student membership – Free to full-time students.

Once you have gained work experience in a Building Services Engineering field you can apply for Chartered Engineer status and corporate membership.

CIBSE offers a variety of routes to become Chartered depending on work experience and qualifications. Candidates who do not hold a Masters qualification can still gain corporate membership and Chartered Engineer status via the alternative route by demonstrating relevant experience.

CIBSE also has a mutual recognition agreement which allows members of Engineers Australia (EA) or IPENZ to ‘fast track’ into CIBSE corporate membership.

More information: www.cibse.org/join-cibse
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CIBSE BY NUMBERS

CIBSE’s history dates back to this year, when the Institution of Heating and Ventilating Engineers was founded. Countries around the world where CIBSE members can be found.

Knowledge sharing groups that CIBSE hosts form members or non-members. They include the Young Energy Performance Group.

20,000 Members of the Chartered Institution of Building Services Engineers

WOMEN IN BUILDING SERVICES ENGINEERING (WIBSE)

CIBSE’s WIBSE network has been established to support and encourage women who are joining, working and progressing in the building services sector. Membership is free, and you don’t have to be a CIBSE member in order to join. The network is open to men as well as women.

CIBSE YOUNG ENGINEERS NETWORK (YEN)

The CIBSE Young Engineers Network (YEN) is a network of regional centres aimed at young professionals. There are no costs or strings attached to membership, and you don’t have to be a CIBSE member to join – although you can begin your CIBSE membership as a Student. CIBSE YEN has its own LinkedIn networking group, while its regional centres organise a range of activities including technical tours and social events. CIBSE YEN has regional centres across the ANZ as well as overseas.

Check out: www.cibse.org/YenANZ

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