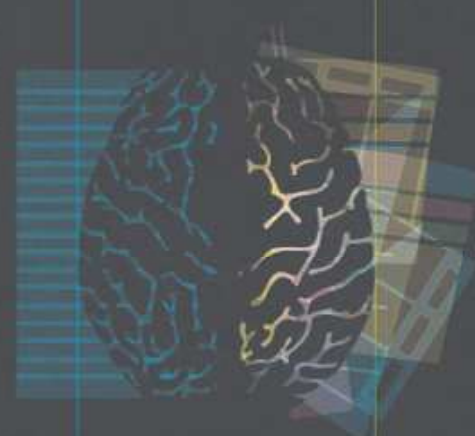




ARCHITECTURE vs ENGINEERING

Although architects and engineers perform many parallel functions that contribute to the design and implementation of buildings and structures, there are also key distinctions between the two disciplines. Understanding the traits that complement each role can help students determine which degree program nurtures their passion.

THE ENGINEER THE ARCHITECT



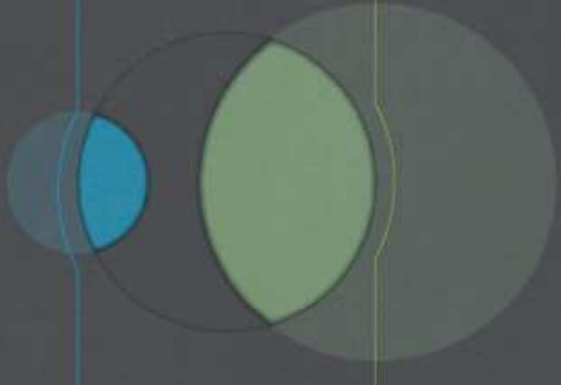
<p>LEFT BRAIN</p> <p>PRECISE MATHEMATICAL SYSTEM BUILDER</p>	<p>RIGHT BRAIN</p> <p>ARTISTIC CREATIVE THEORETICAL THINKER</p>
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CHARACTER TRAITS

Architects and engineers often approach projects from very different perspectives. While architects rely on creativity and the ability to think theoretically, engineers use a mathematical mindset. From constructor to designer, there is a relationship between personality traits and work duties for architects and engineers.

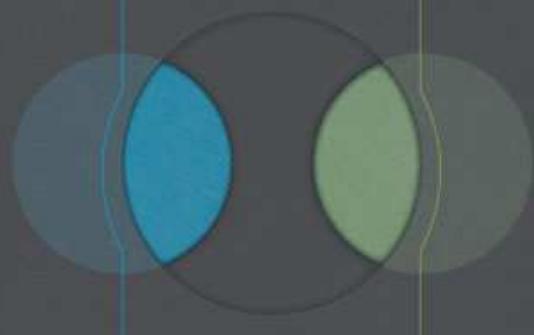
DESIGN

An architect is focused on designing and constructing the form, space and ambience of buildings and other physical environments. Engineers ensure that the design will work by applying scientific principles.



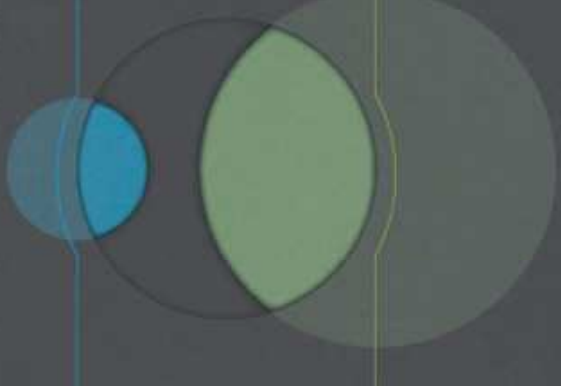
COST ESTIMATION

Architects must work within budgets for material and construction costs, while engineers will take these factors into consideration when evaluating the specifications of a project.



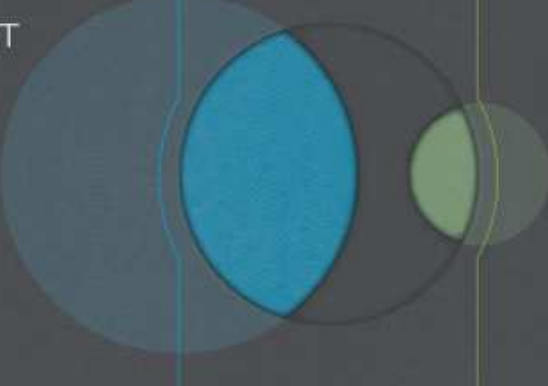
PROJECT MANAGEMENT

Architects and engineers take on project management roles within their area of focus. In the development of buildings and other structures, they serve as liaisons between design teams and clients.



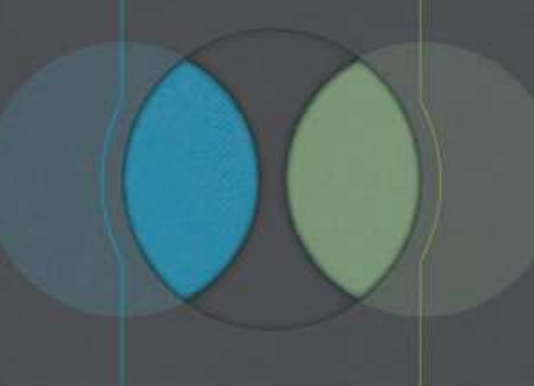
MATH + PHYSICS EXPERT

Engineers are experts when it comes to math and physics. They are responsible for translating an architectural vision into quantifiable terms. Architects need to keep scientific methodologies in mind when preparing drawings and communicating to engineers.



LICENSES

To become a licensed architect, one must pass the Architectural Registration Examination. Engineers, depending on their specialization, may be required to obtain a Professional Engineer's License.



SPECIALIZATIONS

These are other fields in which an architect or an engineer can study or practice. Architects can focus on commercial, residential or industrial structures. They can even design whole cities. Engineers can go into many fields, from electrical engineering to environmental - channeling their skills in many avenues.

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|--|--|
| <p>MECHANICAL</p> <p>STRUCTURAL</p> <p>ELECTRICAL</p> <p>ENVIRONMENTAL</p> <p>INDUSTRIAL</p> | <p>BUILDING DESIGN + DEVELOPMENT</p> <p>URBAN DESIGN</p> <p>LANDSCAPE ARCHITECTURE</p> <p>CITY PLANNING</p> <p>GRAPHIC DESIGN</p> <p>INTERIOR DESIGN</p> |
|--|--|



WHICH FIELD IS RIGHT FOR YOU?

Sources

<http://www.bis.gov/ooh/architecture-and-engineering/architects.htm>

<http://www.bis.gov/ooh/architecture-and-engineering/civil-engineers.htm>

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