

## ENGINEER, LICENSED

**Licensing Authority** Glean Coates  
Engineering and Land Surveying Examining Board  
Iowa Department of Commerce  
1918 SE Hulsizer  
Ankeny IA 50021  
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Fax: (515) 281-7411  
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**Legal Authority** Code of Iowa, Chapter 542B; Iowa Administrative Code, Chapter 193C

**Job Description** Engineers apply the theories and principles of science and mathematics to the economical solution of practical technical problems. They design industrial machinery; develop scientific equipment; supervise the construction of buildings and highways; design consumer products and various other innovations; and, evaluate the overall effectiveness of new products and operations, as well as the cost and reliability. Responsibilities may include inspection, quality control, management and administration. Engineers typically specialize in one of more than 25 specialties recognized by professional societies.

**Education & Experience Required** In order to be recognized as a licensed or professional engineer, the state requirements for licensure must be met. The applicant for a licensed engineer's license must have a degree in engineering and four or more years of practical experience.

**Continuing Education** Thirty hours of continuing education are required biennially for license renewal.

**Examination** The applicant must pass two written examinations, which are given twice a year. Each test is eight hours in length. The Fundamentals of Engineering examination is a closed-book examination. The Principles and Practice of Engineering examination is open-book.

**Fees**

Application:	\$35 – Principles & Practice examination
	\$25 – Fundamentals examination
	\$100 – Comity (if licensed in another state)
Renewal:	\$60 – Active
	\$30 – Inactive
Exam:	Varies by exam
Other:	\$10 – Certificate

<b>SOC Code, Title, &amp; Avg. Hourly Wage</b>	17-2021 – Agricultural Engineers (\$25.22)
	17-2041 – Chemical Engineers (\$30.58)
	17-2051 – Civil Engineers (\$28.05)
	17-2071 – Electrical Engineers (\$29.92)
	17-2081 – Environmental Engineers (\$23.31)
	17-2111 – Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (\$20.70)
	17-2112 – Industrial Engineers (\$25.28)
	17-2131 – Materials Engineers (\$28.94)
	17-2141 – Mechanical Engineers (\$27.43)
	17-2151 – Mining and Geological Engineers, Including Mining Safety Engineers (\$24.42)
	17-2199 – All Other Engineers (\$26.70)

<b>Number of Licenses Issued</b>	Total number of licenses active as of December 31, (counts include Land Surveyors)
	2001: N/A
	2000: 6,440
	1999: 5,982
	1998: 5,811
	1997: 5,748
	1996: 5,519
	1995: 5,671
	1994: 5,378

<b>For Additional Information</b>	National Council of Examiners for Engineering and Surveying PO Box 1686 Clemson SC 29633-1686 <a href="http://www.ncees.org">http://www.ncees.org</a>
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Iowa Engineering Society  
1000 Walnut St Ste 2  
Des Moines IA 50309

National Society of Professional Engineers  
1420 King St  
Alexandria VA 22314  
<http://www.nspe.org>