

AGRICULTURAL ENGINEER

Engineering a better agriculture.



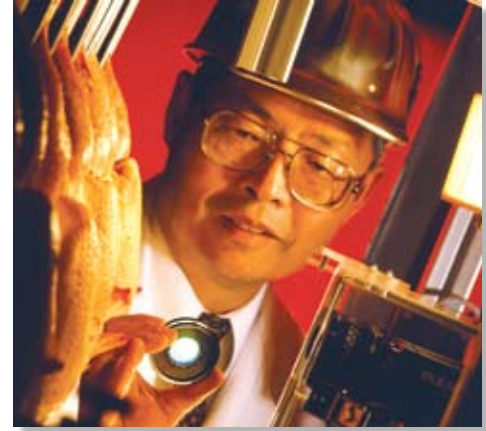
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Agricultural engineers apply basic science and engineering principles as they design solutions to engineering problems in agricultural production. Agricultural engineers design agricultural machinery and facilities such as tractors, implements, animal confinement systems, storage and handling facilities, irrigation and drainage systems, and soil conservation measures.

Agricultural engineers are hired by builders of storage facilities, farmsteads, and commercial buildings; agricultural machinery companies; irrigation and drainage system manufacturers; federal, state, and local research, regulatory, and educational agencies; manufacturers of control systems and measuring devices; consulting firms; power utilities; and alternative fuel producers.

To be an agricultural engineer, you should enjoy solving problems and have the ingenuity to envision new designs or solutions. You must understand physical and chemical principles well enough to apply them as you solve problems. In college you will take courses in mathematics, physics, chemistry, communications, computer science, economics, and a wide variety of engineering sciences including heat flow, environmental engineering, water movement, fluid mechanics, instrumentation, controls, properties of agricultural materials, engineering analysis, and engineering design.

In high school, take [mathematics](#), [physics](#), [chemistry](#), [English](#), and [computer science](#). It also helps to get involved in activities that give you experience in [communicating](#), [leading groups](#), [solving problems](#), [analyzing situations](#), and [resolving conflicting views](#).



Photos: Agricultural Communication Service;
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