

LIVESTOCK SCIENCE

AgCareers.com developed career profiles for high demand jobs in the agricultural industry. These career profiles are a helpful resource for students and job seekers to explore new roles in the industry, as well as for career educators.

Animal Geneticist

JOB OVERVIEW

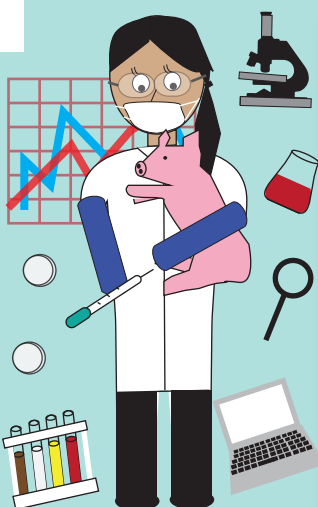
Analyze the genetic makeup of animals in order to discover information about behavior & health

Find ways to improve selection decisions & develop approaches to accelerate genetic differentiation between different breeds

Research how genes affect reproduction or growth

Crossbreed animals to obtain new combinations of desirable traits

JOB OUTLOOK



EDUCATION NEEDED

Bachelor's degree in genetics or related field: animal science, biology, poultry science, dairy science; Master's & Doctorate often preferred

RECOMMENDED H.S. COURSES

Ag education, biology, anatomy, animal science, English, math

TYPICAL EMPLOYERS

Animal pharmaceutical companies, breeding companies, universities, or the government

Embryologist

JOB OVERVIEW

Provide reproductive services & research in embryo creation, IVF, cloning & transgenic animal production

Perform IVF, artificial insemination, cryopreservation of embryos & embryonic transfer

Freeze embryos for storage in liquid nitrogen & fill storage when needed

Coordinate & schedule farm trips for retrieval of animal eggs & sperm

JOB OUTLOOK



EDUCATION NEEDED

Bachelor's or Master's in animal reproduction, animal science, or biology

RECOMMENDED H.S. COURSES

Ag education, biology, anatomy, animal science, computer courses, mathematics

TYPICAL EMPLOYERS

Research firms and universities, large-scale animal health or production companies

Herd Nutritionist

JOB OVERVIEW

Educate & advise producers on raw material product selection, maintenance feeding programs & diet modifications in livestock

Frequently observe animal behavior & eating habits

Understand current feed rations & their nutritional value

Monitor aspects of feed manufacturing & quality control

Conduct & evaluate dietary studies

JOB OUTLOOK



EDUCATION NEEDED

Bachelor's or Master's in animal science, animal nutrition, poultry science, or dairy science

RECOMMENDED H.S. COURSES

Ag education, animal science, biology, anatomy, chemistry, computer courses

TYPICAL EMPLOYERS

Cooperatives, animal health and production companies, feed companies, veterinarians

Ruminant Nutritionist

JOB OVERVIEW

Determine feed rations, conduct research & consult farmers and ranchers regarding feeding practices for their ruminant animals

Formulate the best rations for clients utilizing computer software

Assess conditions of animals as well as activity level & physiological needs to determine proper feed

Work with feed production teams to develop new feed products

Promote feed products to clients

JOB OUTLOOK



EDUCATION NEEDED

Master's or Doctorate in animal science, ruminant nutrition, forage production, or similar field

RECOMMENDED H.S. COURSES

Ag education, animal science, biology, anatomy, chemistry, mathematics

TYPICAL EMPLOYERS

Animal production companies, government, animal health or feed companies, or self-employed

PROFESSIONALS IN LIVESTOCK SCIENCE CAN EXPECT TO EARN AN AVERAGE OF \$80,000 PER YEAR