

Research permissible under the Industrial Hemp Pilot Program ranges from basic scientific research on plant materials (e.g., genetic sequencing) to applied scientific research with animal models (with IACUC approval). Permissible research does not include human clinical trials, as such research may require a researcher to submit an Investigational New Drug Application to

Researchers may also conduct research involving industrial hemp by obtaining the hemp, or derivatives thereof, from commercial entities. To conduct business with an industrial hemp entity or organization, the entity must:

1. Be registered with the Colorado Department of Agriculture's Industrial Hemp Pilot Program.
2. Have a federally insured bank account.
- 3.

- 7. Are there steps I have to take before engaging in research using actual hemp or hemp-derived materials?*

Please contact Tom Heddleston or Jon Reuter in the Office of Research Integrity (contact information is provided at the end of this document) before undertaking such research. They can alert you to any issues that may exist. This will also allow us to keep track of hemp research being conducted for our own analysis as there are frequent inquiries about research of this nature.

- 8. Can I grow industrial hemp for research purposes?*

Yes, but this requires registration of the cultivation site on the University's CDA registration or a separate CDA registration for your specific location, if necessary. Please coordinate registration applications through Tom Heddleston.

- 9. If I want to grow industrial hemp for research purposes, where can I obtain viable hemp seed?*

At this time, viable hemp seed should be obtained only from the CDA. The Office of Research Integrity will order and obtain the seed from the CDA for distribution to faculty having registered locations on the University's CDA registration(s).

- 10. What do I do if the industrial hemp I grow has THC concentration that exceeds the limit of 0.3% on a dry weight basis?*

Any plants with THC concentrations exceeding the 0.3% limit must be reported to the CDA. If the CDA tests the crop and it exceeds the 0.3% limit, it likely will destroy the crop.

- 11. Can CU-Boulder researchers use non-CU subcontractors to grow hemp for research purposes?*

Yes, but the subcontractor must (1) be registered with the Colorado Department of Agriculture's Industrial Hemp program; (2) have a federally insured bank account; and (3) certify that they do not work with the Marijuana Industry. Contact Tom Heddleston for more information about developing an MOU with subcontractors for this purpose.

- 12. Can CU-Boulder researchers obtain hemp products from third parties for research purposes?*

A qualified yes. Hemp materials and products, other than viable seeds, that contain a THC concentration of less than 0.3% on a dry weight basis are not subject to the Controlled Substances Act if the materials and products are cultivated pursuant to the Farm Bill and Colorado's Agriculture Pilot Program. In addition, the third party must be registered with the CDA and its activities must have a research purpose. Thus, a researcher is permitted to receive and perform research on such materials and products from parties with which it enters collaborative research focused agreements processed through the Office of Research Integrity.

13. *Can CU-Boulder researchers perform hemp research in a paid or unpaid sabbatical situation in a foreign country whose laws permit industrial hemp research in any capacity?*

Yes.

14. *Can CU-Boulder researchers perform hemp research funded by industry?*

Yes, but only if the funder meets the criteria described in Question 11 and the arrangement includes an MOU involving sponsored research or services. (CU does not accept gifts or funding from the Marijuana Industry due to federal regulations and laws, including the Drug Free School Zones Act, Drug Free Work Place Act and the Bank Secrecy Act.)

15. *If I perform research on hemp or hemp products, am I free to provide those results to the sponsor?*

Intellectual assets, including publications, knowledge and licensed rights to resulting intellectual property, may always be provided as is standard operating procedure for research universities. Hemp and associated materials, but not viable seeds, may be provided to the sponsor. (See answer to Question 12 above).

16. *Can CU-Boulder license intellectual property rights resulting from industrial hemp research?*

Yes.

17. *Can a CU-Boulder researcher who maintains a DEA Schedule I registration handle industrial hemp materials falling under the CDA's Industrial Hemp Pilot Program in the same facility?*

Yes, provided that all Schedule I rules and protocols are followed for materials categorized as a Schedule I controlled substance.

18. *How should CU-Boulder researchers dispose of unwanted industrial hemp materials?*

Currently, the only process for destruction of materials is burial/composting.

19. *Has CU formed a joint research institute with Colorado State University?*

Yes, CU and CSU have developed a framework for a joint hemp research institute now called the Colorado Partnership for Hemp Research (CPHR), to legally, jointly perform hemp research and support graduate student engagement in such research.

RESEARCH INVOLVING MARIJUANA:

20. *Can CU-Boulder researchers perform marijuana research?*

Yes, but only under certain conditions. Human observational studies may be conducted without a DEA registration, but all other research first requires DEA Schedule I registration. In addition, research involving humans requires IRB approval, and research involving animals requires IACUC approval.

21. *What are human observational studies?*

Human observational studies are those where subjects use marijuana, but the researcher does not procure the marijuana for the subjects and in which the marijuana is not used/consumed on the University's property.

22. *How can I locate DEA-approved sources of cannabis products?*

In general, the DEA only approves of transfers of controlled substances between DEA registrants. Currently the primary provider of marijuana for research purposes is the University of Mississippi, although in principle material (including extracts but excluding seeds) could be obtained in transfers from other DEA registered entities. A list of marijuana plant material currently available from the NIDA Drug Supply Program can be found at <https://www.drugabuse.gov/researchers/research-resources/nida-drug-supply-program-dsp/marijuana-plant-material-available-nida-drug-supply-program>.

23. *Can CU-Boulder researchers provide marijuana samples, extracts, and derivatives to other labs at CU-Boulder or entities external to the university?*

