

User access at the National Deuteration Facility

User access

Access to the NDF is via merit-based proposals. For chemical and biological deuteration of materials, calls for applications close in March and September of each year. Proposals are submitted via the [Australian Centre for Neutron Scattering Customer Portal](#).

Outside the proposal scheme and for some molecules, NDF can provide deuterated materials for commercial clients, where full cost recovery of materials and labour are involved. Enquiries and quotes can be obtained via ndf-enquiries@ansto.gov.au

Proposal submission process

Contact a relevant NDF staff member to discuss their requests for deuterated materials and for help in the proposal submission process. Proposals will be independently reviewed for scientific merit.

For successful proposals, NDF will synthesize and provide the requested deuterated molecules or materials, provide chemical and biological advice and provide the appropriate analyses for the produced deuterated product (e.g., certificate of analysis).

Co-authorship

Co-authorship is expected on results published for studies where deuterated materials have been provided using NDF developed protocols. Due to the substantial time (weeks to months) and degree of difficulty in isotopically labelling molecules that usually are not available from other sources, co-authorship of publications arising from use of NDF-generated materials is expected.

Potential cost recovery

Proposals from applicants in countries other than Australia will be subject to a cost recovery fee unless the molecules are for use in experiments in Australia (for example at the Australian Centre for Neutron Scattering) which are exempt.

Requests for multiply-labelled proteins (e.g. with ^2H plus ^{13}C and/or ^{15}N) will involve a fee to recover 50% of the cost of isotopic materials used in production.

Large quantities or number of deuterated molecules is by negotiation.

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Key contacts

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