

Research Activities API

The Research Activities API is a [RESTful Web Service](#) that provides machine access to research activity information contributed to Research Data Australia (RDA) by Australia's principal research funders (grants) and Australian research institutions and agencies (projects). You can [read more](#) about the research grants and projects discovery service and [explore](#) its content to see what lies behind this API.

Example use cases for this API include:

- Lookup and/or Validation when research grant identifiers are required in input forms for systems such as institutional repositories
- Retrieve the details of a particular research grant for display in your system based on its identifier
- Building research profiles for researchers and institutions
- Including discovery of Australian research activity in your system or service

Usage

Before you start! To use this service, institutions or individuals must [register for a free API key](#) .

Resource URL

```
https://researchdata.edu.au/api/v2.0/registry/activities?api_key={apiKey}&{params}
```

- Replace {YOUR API KEY} with the key your organisation registered ([no API key? register for free](#))
- Replace {params} with some combination of the parameters below. *Note: all parameter values must be URL-encoded.*
- Issue a HTTP GET request.
- By default, results are limited to 30 records per request. Use the `start` and `rows` parameters to step through additional results.

Service Parameters

Parameter	Description	Example Usage
q	Used to search in all indexed text fields for specified keyword(s)	activities?q=cognition%20AND%20chemotherapy activities?q="sodium channels" activities?q=Desmond Butler
type	Use this parameter to limit a search to specific activity types. Supported values = 'grants', 'programs' or 'projects'	activities?type=grant
status	Use this parameter to limit a search to activities in a specific status. Supported values = 'closed', 'active', 'pending', or 'other'	activities?status=closed
purl	Use this parameter to return an activity with a specific purl grant identifier for an Australian research grant. Note that the entire PURL must be passed.	activities?purl = http://purl.org/au-research/grants/arc/LP0455245

identifier	This parameter can be used to search for activities which contain the specified identifier value/text in an identifier field.	activities?identifier=DP110102483
title	This parameter can be used to search for activities which contain the specified text in a title field. <i>Note: The title parameter searches through the Alternative and Abbreviated titles for a record. These titles however are NOT returned in the API response.</i>	activities?title=cancer%20AND%20cluster
subject	Use this parameter to search for activities which contain the specified text in any of the subjects assigned to an activity (including ANZSRC fields of research). <i>Note: ANZSRC-FOR & SEO subject codes can also be passed. However not all activities in RDA contain these subject codes.</i>	activities?subject=intelligent%20agents activities?subject=04 (04 = ANZSRC-FOR Earth Sciences)
description	This parameter can be used to search for activities which contain the specified text in either the brief or full description.	activities?description=molecular%20fusion
institution	Use this parameter to search for activities that are related to a party of type 'group' whose title contains/matches the specified text. <i>Tip: Wrap values in double quotes " " to ensure exact matches.</i>	activities?institution="University%20of%20Sydney"
funder	Use this parameter to search for activities that are related to a party of type 'group' with a relation of 'isFundedBy' AND whose title contains/matches the specified text. <i>Tip: Wrap values in double quotes " " to ensure exact matches</i>	activities?funder="australian%20research%20council"
principalInvestigator	This parameter can be used to search for activities that are related to a party with a relation of 'hasPrincipalInvestigator' AND whose title contains/matches the specified text.	activities?principalInvestigator=Jacob%20AND%20George
researcher	Use this parameter to search for activities that are related to a party whose title contains/matches the specified text.	activities?researcher=Jacob%20George
fundingScheme	This parameter can be used to search for activities which contain the specified text in the funding scheme as specified by the funder.	activities?fundingScheme="discovery%20projects"
addedSince	Use this parameter to limit the results to records that have been added to RDA since the specified date-time. Supported date format = W3CDTF	activities?addedSince=2015-11-28
modifiedSince	Use this parameter to limit the results to records that have been modified since the specified date-time Supported date format = W3CDTF	activities?modifiedSince=2015-11-28

limit	Use this parameter to limit the number of grants returned by the API (default: 30 – max:1000)	activities?title=fish&limit=5
offset	Use this parameter to offset the grants returned by this number (used to “cursor” through large result sets)	activities?title=fish&limit=15&offset=75

Response Format

- Responses from this service are returned in [JSON format](#).
- Results are wrapped inside a data object, which is returned when the status is OK
- If no records matched your result, the `data` object will be an empty array
- Responses are ordered based on the search query and a relevance default ranking. The default ranking will push records with a higher relevancy up while keeping the records that match in the record set. The default ordering is: title, identifiers, researchers, descriptions and anywhere the text occurred.

Field Name	Value
id	The unique identifier used by the ANDS Registry to manage the record
key	The key assigned to the activity by the provider
title	The display title of the activity
type	The type of activity ('grants', 'programs' or 'projects')
description	The description of the activity (all description elements of type “brief” or “full”)
institutions	Array list of institutions participating in this research activity
researchers	Array list of the researchers named on the awarded grant, or involved with an activity
status	The status of the activity ('closed', 'active', 'pending', or 'other')
fundingAmount	The total budget allocated to a research grant by the funder
fundingScheme	The funding scheme or funding program that a grant has been awarded under
startDate	The commencement date for funding if it is a grant (often just a year or a month) or for the project if it is a project
endDate	The completion date (as above)
dateTimeModified	The date-time the activity record was added to RDA
dateTimeCreated	The date-time the activity record was last changed in RDA
funder	The name and acronym of the organisation that funded a research grant, program or project
managingInstitution	The institution managing the grant or project
principalInvestigator	The person named as the lead investigator for the research activity
purl	Standard purl grant identifier (the research sector is encouraged to always use this identifier when referring to a grant)
identifiers	Array list of identifiers assigned to the activity record.
subjects	Array list of subjects assigned to the activity.
links	Hypermedia links

Example Usage

Validate a grant ID provided in an input form field to retrieve the purl grant identifier

Return the grant with ID "910771":

- HTTP GET Request:
> `activities?type=grant&identifier=910771`

Grants for a particular organisation

Return all grants that were managed by Queensland University of Technology in the area of Agriculture and Veterinary Science – ANZSRC-FOR code "07":

- HTTP GET Request:
> `activities?type=grant&institution="Queensland%20University%20of%20Technology"&subject=07`

Grants from particular funding organisation

Return all grants funded by the Department of the Environment:

- HTTP GET Request:
> `activities?type=grant&funder="Department of the Environment"`

Grants and projects by a particular researcher with a particular phrase in the title

Return all grants and projects involving "David Cook" which contain the phrase "sodium channels" in the title. (note that results will contain those with just "cook" in a person name or just "David" but those with both close together will be ranked higher)

- HTTP GET Request:
> `activities?researcher=David%20Cook&title="sodium%20channels"`

Grants and projects which mention both cognition and chemotherapy

Return all completed grants and projects which contain both the terms "cognition" and "chemotherapy" in any free text field (note that the closer the terms are together the higher the ranking)

- HTTP GET Request:
> `activities?q=cognition%20AND%20chemotherapy&status=closed`