The Grants.gov API provides a suite of RESTful services designed to facilitate programmatic access to federal grant opportunities and related data. These APIs are particularly beneficial for developers and organizations aiming to integrate grant data into their systems or automate aspects of the grant application process.​

### **🔑 Accessing the API**

* **Base URLs**:
  + **Production**: https://api.grants.gov
  + **Staging**: <https://api.staging.grants.gov> ​[API GUIDE](https://grants.gov/api/api-guide?utm_source=chatgpt.com)
* **API Key**: Certain endpoints require an API key. To obtain one, submit a request through the Grants.gov Help Desk. Once received, safeguard your API key as you would any sensitive credential. ​

### **📚 Available APIs**

#### **1. search2**

* **Purpose**: Search for grant opportunities based on specific criteria.
* **Method**: POST
* **Endpoint**: /v1/api/search2
* **Authentication**: Not required.
* **Sample Request Body**:

{

"keyword": "education",

"rows": 10,

"oppStatuses": "posted|forecasted"

}

* **Response**: Returns a list of matching opportunities with details such as opportunity ID, title, agency, and status.

#### **2. fetchOpportunity**

* **Purpose**: Retrieve detailed information about a specific opportunity.
* **Method**: POST
* **Endpoint**: /v1/api/fetchOpportunity
* **Authentication**: Not required.
* **Request Parameter**: Opportunity ID.
* **Response**: Provides comprehensive details, including forecast, synopsis, package information, related documents, and links. ​[OPPORTUNITY TOTALS BY CFDA](https://grants.gov/api/api-guide?utm_source=chatgpt.com)

**3. Opportunity Totals by CFDA**

* **Purpose**: Retrieve counts of opportunities categorized by CFDA (Catalog of Federal Domestic Assistance) numbers and their statuses.
* **Method**: POST
* **Endpoint**: /grantsws/rest/opportunities/search/cfda/totals
* **Authentication**: API key required.
* **Headers**:
  + **Authorization**: APIKEY=your-api-key
  + **Content-Type**: application/x-www-form-urlencoded
* **Response**: Returns a JSON object with CFDA numbers as keys and counts of forecasted, posted, closed, and archived opportunities. ​[OPPORTUNITY TOTALS BY CFDA](https://grants.gov/api/api-guide?utm_source=chatgpt.com)

### **🧪 Testing the APIs**

* **Postman**:
  + Import the provided Postman collection into your workspace.
  + Configure the necessary headers and request bodies as per the API requirements.
  + Send requests to the staging or production endpoints to test functionality.​[Grants.gov](https://grants.gov/api/api-guide?utm_source=chatgpt.com)
* **cURL**:

curl --location 'https://api.grants.gov/v1/api/search2' \

--header 'Content-Type: application/json' \

--data '{"keyword": "health"}'

Ensure you replace the sample data with your actual parameters. ​[SEARCH2](https://grants.gov/api/common/search2?utm_source=chatgpt.com)

### **🔄 API Versioning**

Grants.gov employs a versioning strategy to maintain API stability:​[API VERSIONING](https://grants.gov/api/api-versioning?utm_source=chatgpt.com)

* **Major Versions**: Indicated in the URL path (e.g., /v1/). Major updates that may introduce breaking changes will result in a new version number.
* **Minor Versions**: Represent non-breaking changes and are specified in the X-API-Version HTTP header (e.g., X-API-Version: 1.1).​

This approach ensures backward compatibility and provides clear communication about updates. ​[Grants.gov](https://grants.gov/api/api-versioning?utm_source=chatgpt.com)

### **📄 Terms of Service**

By using the Grants.gov API, you agree to the following:​[TERMS & CONDITIONS](https://www.grants.gov/api/terms-conditions?utm_source=chatgpt.com)

* **Usage**: APIs are provided "as is" without warranties.​
* **Attribution**: Any application utilizing the API should display the notice:  
  "This product uses the Grants.gov API but is not endorsed or certified by the U.S. Department of Health and Human Services."​
* **Limitations**: Grants.gov may impose limits on API usage and reserves the right to revoke access if terms are violated. ​

### **🧰 Additional Resources**

* **API Guide**: Comprehensive instructions on using and testing the APIs. ​
* **Reference Implementation**: Sample Java application with MySQL database to assist in client application development and connectivity testing. ​[REFERENCE IMPLEMENTATION](https://www.grants.gov/system-to-system/grantor-system-to-system/reference-implementation?utm_source=chatgpt.com)
* **Schemas**: Detailed XML schemas for various components like Grants Opportunity, Package, and Related Documents. ​