# **NHS Jobs Self-Serve Job Adverts API**

The NHS Jobs Self-Serve Job Adverts API allows a consumer to make a request to the NHS Jobs service and receive back live job adverts. Requests can be tailored to only bring back adverts matching specific criteria. This document describes the usage process and different options that are available to a consumer to help retrieve job adverts from the NHS Jobs Service.

Please note: the NHS Jobs Self-Serve Job Adverts API specification can be found at appendix A.

# **Usage of the NHS Search XML End Point**

The NHS Search Service provides an endpoint that returns the results of searches in XML format. It is intended that this endpoint can be used by website developers wishing to embed results within their own pages or make use of the data in some other way.

https://www.jobs.nhs.uk/api/v1/search\_xml

The sections below expand on what is contained within each field, and the query parameters that can be used as part of the request URL to search, filter, and sort the vacancy information that is included in the response document.

## Xml Response Wrapper (Named “nhsJobs”)

|  |  |
| --- | --- |
| **Field** | **Description** |
| **totalPages** | The number of pages in the search |
| **totalResults** | The total number of results returned by the search |
| **vacancyDetails** | The list of vacancy details, not wrapped. The Xml Response Wrapper will thus contain multiple (up to 5 per page) instances of this tag |

## Vacancy Details

|  |  |
| --- | --- |
| **Field** | **Description** |
| **Id** | The unique identifier for this vacancy |
| **title** | The Job Title for this vacancy |
| **employer** | The name of the Employer that created this vacancy |
| **description** | Contains a truncated segment of the job overview for the vacancy, an introduction to the job rather than a long form job description |
| **closeDate** | The closing date for this vacancy |
| **postdate** | The date that this vacancy was posted |
| **locations** | A list of towns and postcodes where the vacancy is located. Nested XML array where each entry is a <location> composed of a town name, a comma, and a post code |
| **reference** | The job reference for this vacancy |
| **salary** | The salary range for this vacancy, in the format of the following example: "£20,000 to £30,000" |
| **type** | The contract type for this vacancy |
| **url** | A URL that links to this specific vacancy |

## XML Example Structure

**<?xml version="1.0" encoding="UTF-8"?>**

**<nhsSearch>**

**<totalPages>0</totalPages>**

**<totalResults>0</totalResults>**

**<vacancyDetails>**

**<closeDate>2022-01-01</closeDate>**

**<description>This role for a nurse involves the following duties ...</description>**

**<employer>Your Local Health Board</employer>**

**<id>12345</id>**

**<location>**

**<location>Cardiff, CF14 4XW</location>**

**<location>Newport, NP20 2UB</location>**

**</location>**

**<postDate>2022-01-01</postDate>**

**<reference>ABC-123-DFE</reference>**

**<salary>£20,000 to £30,000</salary>**

**<title>Nurse</title>**

**<type>Permanent</type>**

**<url>https://www.jobs.nhs.uk/candidate/jobadvert/A0000-00-0000</url>**

**</vacancyDetails>**

**</nhsSearch>**

# **Usage of the NHS Search RSS Feed**

The NHS Search Service provides an endpoint that returns the results of searches in RSS 2.0 format. It is intended that this endpoint can be used by website developers wishing to embed results within their own pages or subscribe to the feed to make use of the data in some other way.

https://www.jobs.nhs.uk/api/v1/search\_rss

As per the RSS 2.0 standard (version 2.0.11) the endpoint returns a Channel containing Items in XML format. The sections below expand on what is contained within each field, the two non-standard fields that are present in version 1 of this endpoint, and the query parameters that can be used as part of the request URL to search, filter, and sort the vacancy information that is included in the response feed.

## Channel

|  |  |  |
| --- | --- | --- |
| **Field** | **Standard (Yes/No)** | **Description** |
| **title** | Yes | Field will be present in response, but contain no information |
| **description** | Yes | Contains details of the search terms used to request this feed |
| **link** | Yes | Contains the full URL used to request this feed |
| **language** | Yes | Contains the language code for the data contained in this feed. With version 1, this will always be “en-uk” |
| **pubDate** | Yes | Contains an RFC 882 formatted Date, representing the date and time that the request for this feed was made |
| **lastBuildDate** | Yes | Contains an RFC 882 formatted Date, representing the date and time that the request for this feed was made |
| **Image** | Yes | Contains a link and URL to use as the image for this feed, consisting of the NHS logo and a link to the NHS website |
| **ttl** | Yes | Contains the time to live, indicating how long this feed can be cached |
| **count** | No | Contains the total number of results returned by the query used to request this feed. Use this in combination with the page query parameter to paginate through the results |

## Item

|  |  |  |
| --- | --- | --- |
| **Field** | **Standard (Yes/No)** | **Description** |
| **title** | Yes | Contains the Job Title for this vacancy |
| **author** | Yes | Contains the name of the Employer that created this vacancy |
| **link** | Yes | Contains a URL that links to this specific vacancy |
| **guid** | Yes | Contains a URL that links to this specific vacancy in RSS Guid format |
| **pubDate** | Yes | Contains an RFC 882 formatted Date, representing the date and time that the request for this feed was made |
| **description** | Yes | Contains a truncated segment of the job overview for the vacancy, an introduction to the job rather than a long form job description |
| **closingDate** | No | Contains an RFC 882 formatted Date, representing the closing date for this vacancy |

## RSS example Structure

**<?xml version="1.0" encoding="UTF-8"?>**

**<rss version="2.0">**

**<channel>**

**<title/>**

**<description>keyword=nurse</description>**

**<link>https://www.jobs.nhs.uk/api/search\_xml?keyword=nurse</link>**

**<language>en-uk</language>**

**<pubDate>Wed, 26 Aug 2015 13:00:00 GMT</pubDate>**

**<lastBuildDate>Wed, 26 Aug 2015 13:00:00 GMT</lastBuildDate>**

**<image>**

**<link>https://www.jobs.nhs.uk</link>**

**<url>http://www.jobs.nhs.uk/images/nhs\_logos.png</url>**

**</image>**

**<ttl>0</ttl>**

**<count>100</count>**

**<item>**

**<title>Nurse</title>**

**<description>This role for a nurse involves the following duties ...</description>**

**<author>Your Local Health Board</author>**

**<link>https://www.jobs.nhs.uk/candidate/jobadvert/A0000-00-0000</link>**

**<guid>https://www.jobs.nhs.uk/candidate/jobadvert/A0000-00-0000</guid>**

**<pubDate>Wed, 26 Aug 2015 13:00:00 GMT</pubDate>**

**<closingDate>Wed, 26 Aug 2015 13:00:00 GMT</closingDate>**

**</item>**

**</channel>**

**</rss>**

# **Making requests – setting up your own search**

You can setup up your own search URL by using any of the parameters below to customise your query. These can be used in various combinations to filter and sort your results to your exact need. A few examples of this include:

For “Internal Only” Jobs:

https://www.jobs.nhs.uk/api/v1/search\_xml?employerCode=1234&internalOnly=true

https://www.jobs.nhs.uk/api/v1/search\_rssl?employerCode=1234&internalOnly=true

For “Nurse” jobs

https://www.jobs.nhs.uk/api/v1/search\_xml?keyword=Nurse&keywordFields=title

https://www.jobs.nhs.uk/api/v1/search\_rss?keyword=Nurse&keywordFields=title

For specific Employer, sorted by publication date:

https://www.jobs.nhs.uk/api/v1/search\_xml?employerCode=1234&sort=publicationDateAsc

https://www.jobs.nhs.uk/api/v1/search\_rss?employerCode=1234&sort=publicationDateAsc

https://www.jobs.nhs.uk/api/v1/search\_xml?keyword=Paediatric%20Nurse

https://www.jobs.nhs.uk/api/v1/search\_rss?keyword=Paediatric%20Nurse

exmployerCode is unique to each employer and needs to be replaced with your organisations specific code. Additionally, you could add a search form, or search box, on your website where the visitor can enter the term(s) they are searching for. When the visitor activates the search, the values entered would produce the necessary search on the NHS Jobs database and list the results on your website.

Here are a few guidelines concerning constructing your URLs

* All characters should be URL encoded, e.g.
  + spaces should be replaced with %20, e.g. day%20care
  + &s should be replaced with %26
  + Double quotes should be replaced with %22
  + To check for appropriate URL encoding, use an appropriate online tool
* To use parameters in combination, use &s between them (see sample URLs in this document).

Requests made to the NHS Search endpoints can be customized using the following path parameters. These are parameters that can be included as part of the request URL, and will control the search, filter, and sorting of the response.

## Query Attributes

|  |  |  |
| --- | --- | --- |
| **Parameter** | **Description** | **Notes / Values** |
| **contractType** | Provide this parameter to limit search responses to vacancies matching these contract types. | Existing contract types are:   * Permanent * Training * Apprenticeship * Fixed-Term * Locum * Secondment * Voluntary * Honorary * Bank |
| **covidJobsOnly** | Provide this parameter to limit search responses to only those vacancies which are related to Covid-19 | Value must be: true |
| **location** | Provide either a post code or the name of a location. | Requires the distance parameter to also be provided. |
| **distance** | Distance in miles from the location specified in the ‘location’ parameter to limit vacancies returned to. | Requires the location parameter to also be provided |
| **employer** | Limit response vacancies to those with a matching Employer name |  |
| **employerCode** | Limit response vacancies to those with a matching Employer identifier code |  |
| **internalOnly** | Limit response vacancies to those which should be advertised internally. If employerCode is supplied and this parameter is absent or false, the response will include vacancies that should be advertised internally and externally. If this parameter is present and true, the response will only include vacancies that should be advertised internally | Requires the employerCode parameter to also be provided  Value must be: true |
| **jobReference** | Limit response vacancies to those with a matching Job reference number |  |
| **keyword** | Free form keyword based search of vacancy description and other fields |  |
| **keywordFields** | Used in conjunction with the keyword field, will further limit the fields that the keyword searches utilise. Provide a list from the following options:   * title * responsibilities * overview * aboutOrganisation * description * essentialSkills * desirableSkills | Requires the keyword parameter to also be provided |
| **page** | Provide this parameter to return the specified page of the search results. Each page contains a maximum of 5 vacancies |  |
| **payBand** | Limit response vacancies to those matching one of the provided pay band |  |
| **payBandFilter** | Limit response vacancies to those matching one of the provided pay bands. Provide pay bands in a comma separated format |  |
| **payRange** | This parameter is an extension of both salaryFrom and salaryTo, allowing you to provide multiple pay ranges. Pay ranges should be provided in the form of the upper and lower bounds of the range in thousands of pounds (the “from” and “to”) separated by a “-“ dash character, for example, “40-50” is a pay range filter of between £40,000 and £50,000 | Upper and lower ranges need to be separated with a “-“ |
| **publishedFrom** | Limit response vacancies to those published after this provided date |  |
| **salaryFrom** | Filter out any vacancies with a salary lower than this provided number |  |
| **salaryTo** | Filter out any vacancies with a salary higher than this provided number |  |
| **searchByReferenceNumberOnly** | Limit search to only use the job reference number and ignore other provided parameters |  |
| **sort** | Sort the vacancies found by the search. | One of the following options:   * distance – sort by distance from provided location * closingDate – sort by soonest closing date first * salaryAsc – sort by salary in ascending order * salaryDesc – sort by salary in descending order * publicationDate - sort by publication date in descending order * publicationDateDesc - sort by publication date in descending order * publicationDateAsc - sort by publication date in ascending order |
| **workingPattern** | Limit response vacancies to those matching the provided working pattern. | One or more of the following options:   * fullTime * partTime * jobShare * flexibleWorking * remoteWorking * compressedHours * termTimeHours * annualisedHours |

## Document Revision

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Author | Issue |
| 0.01 | 19/4/2023 | Daniel Dowling | First draft |
| 0.01 | 15/05/2023 | Kyle Anderson | Draft amendments |

Appendix A

